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WATER SUPPLY OUTLOOK FOR MONTANA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with
MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
APR. 1, 1974

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,
Alaska snow course.*

SCS PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ANALYSIS OF THE 1954-55

1957

ANALYSIS

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1890

1891

1892

1893

1890		1891		1892		1893	
Jan	1	Jan	1	Jan	1	Jan	1
Feb	1	Feb	1	Feb	1	Feb	1
Mar	1	Mar	1	Mar	1	Mar	1
Apr	1	Apr	1	Apr	1	Apr	1
May	1	May	1	May	1	May	1
Jun	1	Jun	1	Jun	1	Jun	1
Jul	1	Jul	1	Jul	1	Jul	1
Aug	1	Aug	1	Aug	1	Aug	1
Sep	1	Sep	1	Sep	1	Sep	1
Oct	1	Oct	1	Oct	1	Oct	1
Nov	1	Nov	1	Nov	1	Nov	1
Dec	1	Dec	1	Dec	1	Dec	1
Total		Total		Total		Total	

MONTANA WATER SUPPLY OUTLOOK
April 1, 1974

* * * * *

* March storms produced large increases in snow water *
* equivalent at locations near the Montana-Idaho border *
* from Yellowstone National Park to the Canadian border. *
* Above average snowfall also occurred in Southwest *
* Montana. The snowpack is now well above average near *
* the Montana-Idaho border and in the Tobacco Root *
* Mountains. Some snow courses in these areas have *
* record or near record water content. Remaining areas *
* west of the continental divide and in Southwest *
* Montana have above average pack. The rest of the *
* Missouri River drainage has near average snow conditions *
* except for below normal area extending from Red Lodge- *
* Absarokee area to north end of Bighorn Mountains. *
* *
* Streamflow is forecast to follow similar pattern to *
* snow conditions with near record volumes expected from *
* streams with headwaters along the Montana-Idaho border. *
* Average runoff is predicated for Milk River and *
* Stillwater Rivers and below average runoff for Red *
* Lodge Creek and Little Bighorn, Tongue and Powder *
* Rivers. Remaining area which encompasses most of the *
* state should have above average runoff this season. *
* *
* * * * *

COLUMBIA RIVER DRAINAGE

Snow - Very heavy snowpack covers the mountain head waters area of the Bitterroot, Lower Clark Fork and Kootenai River drainage in Montana. Most snow courses in this area have record or near record water contents. A small area in the upper Clark Fork has near average snow pack with remaining area of the Clark Fork, the Blackfoot and Flathead areas showing above average snow. In general, the snowpack is heaviest along the Montana-Idaho border and decreases eastward to the Continental Divide.

Streamflow - Streams with headwaters along the divide between Montana and Idaho are forecasted to produce runoff near the record years of 1956 and 1972. Above average runoff is expected for all other streams with larger percentage flows in westerly areas decreasing toward the east.

THE HISTORY OF THE
CITY OF BOSTON

From the first settlement in 1630 to the present time. By SAMUEL JOHNSON, Esq. of the Middle Temple, Barrister at Law. In two volumes. The first volume contains the history from 1630 to 1700. The second volume contains the history from 1700 to the present time. The first volume is now in the hands of the printer, and will be ready in a few days. The second volume is now in the hands of the printer, and will be ready in a few days.

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MISSOURI RIVER DRAINAGE

Snow - The mountain snowpack varies from record or near record levels in southwest Montana to about average in central and northcentral areas. Snowfall during March was well above average in southern areas decreasing to average or a little less in other Missouri River drainages.

Streamflow - Near record runoffs are expected in the Madison River drainage with well above average streamflow from the headwaters of the Bighole and Beaverhead Rivers. Above average spring and summer streamflow volumes are predicted for all remaining Missouri River tributaries except for the Milk River drainage where near average flows are anticipated.

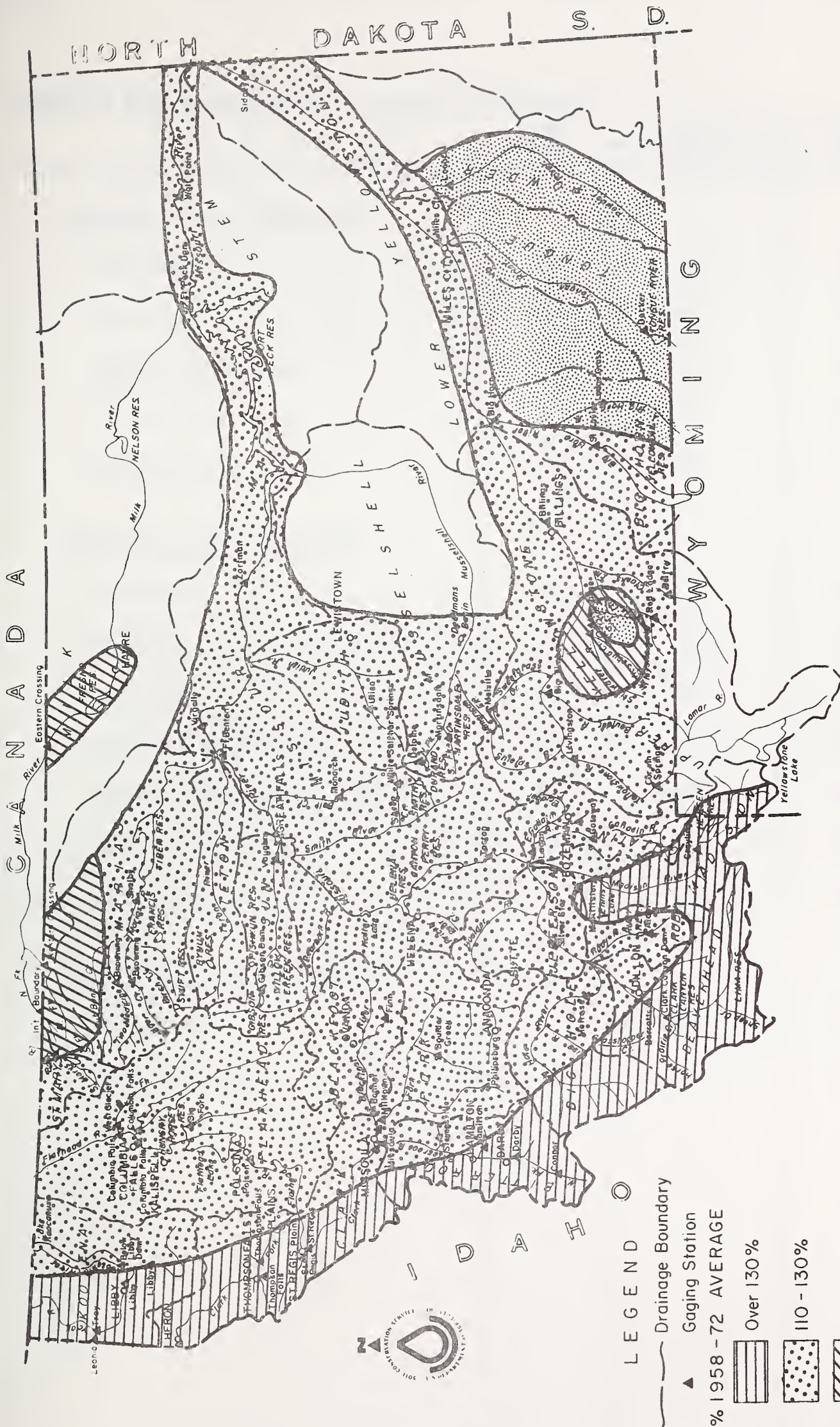
YELLOWSTONE RIVER DRAINAGE

Snow - Below average snow pack persists along the northeast side of the Beartooth Mountains eastward to the northern part of the Bighorn Mountains. Well above average amount of water is stored in the headwaters of the Yellowstone and upper reaches of the Boulder, Stillwater and Clarks Fork Rivers. The area between these two extremes has snow cover near to a little above average.

Streamflow - Above average runoff is forecast for most streams tributary to the Yellowstone River. Exceptions are the Stillwater River where near average flows are expected and Red Lodge Creek, Little Bighorn, Tongue and Powder Rivers where below average runoff is forecast. These below average areas are in drainages where heavy April snowfall is not uncommon and the situation in these areas could improve with increased storm activity in this area.

The first of these was the establishment of the city of Boston in 1630. The second was the establishment of the city of New York in 1624. The third was the establishment of the city of Philadelphia in 1682. The fourth was the establishment of the city of London in 1666. The fifth was the establishment of the city of Paris in 1660. The sixth was the establishment of the city of Rome in 1660. The seventh was the establishment of the city of Constantinople in 1660. The eighth was the establishment of the city of Moscow in 1660. The ninth was the establishment of the city of St. Petersburg in 1703. The tenth was the establishment of the city of Berlin in 1660. The eleventh was the establishment of the city of Vienna in 1660. The twelfth was the establishment of the city of Prague in 1660. The thirteenth was the establishment of the city of Warsaw in 1660. The fourteenth was the establishment of the city of Amsterdam in 1660. The fifteenth was the establishment of the city of Antwerp in 1660. The sixteenth was the establishment of the city of Bruges in 1660. The seventeenth was the establishment of the city of Ghent in 1660. The eighteenth was the establishment of the city of Liege in 1660. The nineteenth was the establishment of the city of Cologne in 1660. The twentieth was the establishment of the city of Bonn in 1660. The twenty-first was the establishment of the city of Frankfurt in 1660. The twenty-second was the establishment of the city of Nuremberg in 1660. The twenty-third was the establishment of the city of Regensburg in 1660. The twenty-fourth was the establishment of the city of Prague in 1660. The twenty-fifth was the establishment of the city of Vienna in 1660. The twenty-sixth was the establishment of the city of Budapest in 1660. The twenty-seventh was the establishment of the city of Belgrade in 1660. The twenty-eighth was the establishment of the city of Constantinople in 1660. The twenty-ninth was the establishment of the city of Moscow in 1660. The thirtieth was the establishment of the city of St. Petersburg in 1703.

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MONTANA

PROSPECTIVE STREAMFLOW FORECASTS
AS OF
APRIL 1, 1974

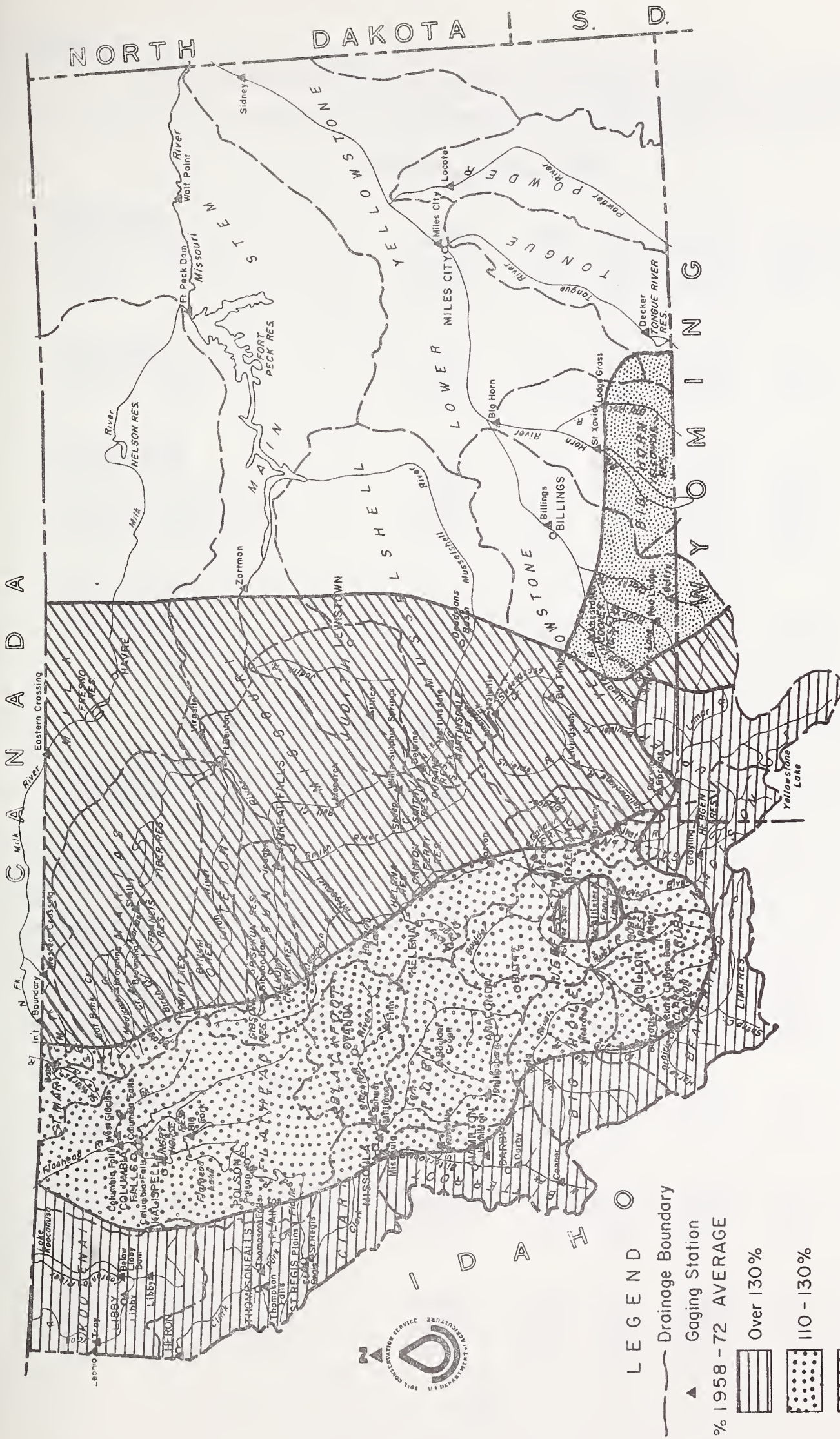




SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	27	187	139
Flathead	28	184	127
Upper Clark Fork	31	171	115
Lower Clark Fork	14	221	136
Bitterroot	15	194	136
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	40	174	131
Madison	21	171	139
Gallatin	14	157	117
Missouri Main Stem	12	175	114
Judith-Musselshell	15	172	110
Marias-Teton-Sun	13	221	115
Milk (Headwaters)	2	185	109
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone	27	167	120
Little Big Horn	7	98	76

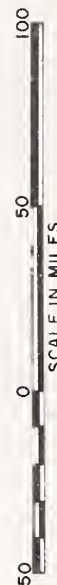
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MOUNTAIN SNOW WATER EQUIVALENT

AS OF
APRIL 1, 1974

MONTANA



SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASIN

Kootenai

Baree Trail	3800	48	7.5	4/2	6.6	5.7	6.4
Murphy Lake R. S.	3000	48	22.6	4/2	22.3	20.0	21.2
Raven	3050	48	23.0	4/2	17.2	14.0	19.7

Flathead

Desert Mountain	5600	54	8.4	3/29	8.8	6.9	7.6
Marias Pass	5250	54	6.5	3/27	7.2	5.9	5.7

Clark Fork

Black Pine	7100	48	10.0	3/26	8.2	7.4	7.4
Lubrecht Forest	4100	48	26.8	4/2	18.3	14.4	21.0
Seeley Lake R. S.	4030	48	11.9	4/1	11.3	7.5	9.9
Skalkaho Summit	7260	48	10.8	3/25	10.2	9.7	9.7

Bitterroot

Gibbons Pass	7100	48	7.1	3/28	5.6	2.8	4.9
Lolo Pass	5250	48	10.6	3/28	6.8	5.8	6.1

MISSOURI RIVER BASIN

Beaverhead

Lakeview	6700	48	15.3	3/29	16.4	15.6	9.3
----------	------	----	------	------	------	------	-----

Madison

West Yellowstone	6700	48	6.5	4/1	3.4	2.6	2.8
------------------	------	----	-----	-----	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	3/26	15.2	16.2	16.3
College Site No. 2	4856	54	17.7	3/29	20.1	19.0	16.8
Lick Creek	6860	48	18.8	3/27	14.6	16.5	17.2
Twenty-One Mile	7150	48	10.0	4/1	8.0	6.8	4.3

Missouri Main Stem

Kings Hill	7420	48	11.8	3/28	8.4	8.4	6.7
Stemple Pass	6350	48	5.9	4/2	5.6	3.5	4.3

Milk

Beaver Creek	3950	48	20.9	3/27	8.2	11.8	16.0
Rocky Boy	4700	36	10.1	3/27	9.7	6.1	7.4

Yellowstone

Battle Ridge	6020	48	17.6	3/26	13.8	12.2	13.8
Northeast Entrance	7350	48	9.4	4/2	5.8	-	6.3
PMC Dryland	3700	48	20.7	4/1	7.6	11.4	-

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average

COLUMBIA RIVER BASIN

Kootenai	Koocanusa	3,522.0	1,061.0	273.1	-
Flathead	Hungry Horse	3,428.0	1,883.0	2,029.0	2,157.0
	Flathead Lake	1,791.0	933.9	669.4	794.5
	Camas (4)	45.2	16.7	32.9	27.1
	Mission Valley (8)	100.3	43.5	33.5	38.1
Clark Fork	Georgetown Lake	31.0	17.8	22.9	23.8
	Lower Willow Creek	4.6	3.9	0.9	1.4
	Noxon Rapids	334.6	328.0	149.1	198.5
	Nevada Creek	12.6		4.5	7.6
Bitterroot	Como	34.9		-	15.8
	Painted Rocks	31.7	0	13.5	20.2

MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.9	152.2	160.7	145.6
	Lima	84.0	54.6	48.9	33.8
Ruby	Ruby	38.8		29.7	30.6
Madison	Hebgen Lake	377.5	229.8	253.8	206.3
	Ennis Lake	41.0	37.8	24.9	36.3
Gallatin	Middle Creek	8.0	4.4	4.2	3.9
Missouri	Canyon Ferry	2,043.0	1,490.0	1,462.0	1,561.0
	Hauser & Helena	61.9	62.5	60.7	54.2
	Lake Helena	10.4	10.7	10.0	8.3
	Holter Lake	81.9	80.4	81.4	57.9
	Smith River	10.7	3.9	5.1	7.1
	Bair	7.0	3.4	4.5	5.4
	Martinsdale	23.1	9.0	10.2	7.8
	Deadman's Basin	72.2	40.8	61.8	49.5
	Fort Peck	19,410.0	15,610.0	16,190.0	13,310.0
Sun	Gibson	105.0	44.5	58.0	43.6
	Willow Creek	32.3	21.4	22.5	21.0
	Pishkun	32.0	3.6	17.0	17.2
Marias	Lower Two Medicine	16.6		-	-
	Four Horns	19.2		-	-
	Swift	30.0		17.3	19.7
	Lake Frances	112.0		94.1	79.3
	Tiber	1,347.0	545.2	494.3	598.9
Milk	Fresno	127.2	26.2	87.0	86.5
	Nelson	66.8	22.9	44.8	40.7
	Lake Sherburne	66.1	39.9	15.4	24.7
Yellowstone	Mystic Lake	20.8	7.0	3.4	4.7
	Tongue River	68.0	36.8	-	38.4
	Cooney	27.5	18.2	17.0	15.6
Bighorn	Bighorn Lake	1,356.0	848.6	893.4	796.2



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

COLUMBIA RIVER BASIN

KOOTENAI RIVER					
Libby (near) (2)	9000	121	Apr-Sept	5252	7456
Below Libby Dam	7850	122	Apr-July	4443	6417
	6150	123	Apr-June	3472	5011
FISHER RIVER					
Libby (near)	360	126	Apr-Sept		286
	345	128	Apr-July		269
YAAK RIVER					
Troy (near)	750	132	Apr-Sept		568
	730	134	Apr-July		544
KOOTENAI RIVER					
Leonia (at)	11200	123	Apr-Sept	5936	9073
	9950	125	Apr-July	5115	7957
	8000	124	Apr-June	4220	6431
FLINT CREEK					
Boulder Creek (below) (3)	77.0	108	Apr-Sept		71.6
	62.0	110	Apr-July		56.1
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	95.0	125	Apr-Sept		75.9
	87.0	127	Apr-July		68.6
NEVADA CREEK					
Finn (near)	28.3	131	Apr-Sept		21.6
	26.5	132	Apr-July		20.1
BLACKFOOT RIVER					
Bonner (near)	1200	116	Apr-Sept	420	1031
	1100	118	Apr-July	363	934
	970	119	Apr-June	319	814
CLARK FORK RIVER					
Milltown (above) (4)	950	120	Apr-Sept	298	792
	840	122	Apr-July	254	690
	720	122	Apr-June	221	590
CLARK FORK RIVER					
Missoula (above)	2150	118	Apr-Sept	718	1823
	1940	119	Apr-July	617	1624
	1690	120	Apr-June	540	1404

(2) Adjusted for storage in Lake Koocanusa.

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	255	148	Apr-Sept		172
	235	151	Apr-July		156
BITTERROOT RIVER					
Darby (near)	800	137	Apr-Sept	301	584
	750	138	Apr-July	266	542
	650	136	Apr-June	239	479
SKALKAHO CREEK					
Hamilton (near)	69.0	122	Apr-Sept		56.6
	61.0	123	Apr-July		49.6
BURNT FORK CREEK					
Stevensville (near) (10)	45.5	129	Apr-Sept		35.3
	40.0	129	Apr-July		31.0
BITTERROOT RIVER					
Missoula (at) (6)	1960	128	Apr-Sept		1527
	1830	130	Apr-July		1412
	1600	129	Apr-June		1236
CLARK FORK RIVER					
Missoula (below)	4110	123	Apr-Sept		3350
	3770	124	Apr-July		3036
	3290	125	Apr-June		2640
ST. REGIS RIVER					
St. Regis (near)	475	146	Apr-Sept		325
	450	146	Apr-July		308
CLARK FORK RIVER					
St. Regis (at)	5750	128	Apr-Sept		4507
	5270	129	Apr-July		4087
	4550	128	Apr-June		3563
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	2400	120	Apr-Sept		1991
	2200	121	Apr-July		1813
	1850	119	Apr-June		1551
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	2150	112	Apr-Sept	1324	1917
	2000	113	Apr-July	1222	1768
	1680	111	Apr-June	1061	1514
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2650	111	Apr-Sept	1450	2378
	2500	112	Apr-July	1374	2240
	2200	111	Apr-June	1248	1984

(5) Adjusted for storage in Painted Rocks Reservoir.

(6) Difference in observed flow Clark Fork above and below Missoula.

(7) Adjusted for storage in Hungry Horse Reservoir

(10) Adjusted for diversion into Sunset Highline Canal.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at) (7)	7400	115	Apr-Sept	4164	6421
	6900	116	Apr-July	3875	5942
	6000	116	Apr-June	3435	5151
SWAN RIVER					
Big Fork (near)	840	117	Apr-Sept		717
	750	119	Apr-July		630
FLATHEAD RIVER					
Polson (near) (8)	9100	119	Apr-Sept	4678	7648
	8450	119	Apr-July	4430	7082
	7200	118	Apr-June	3910	6113
CLARK FORK RIVER					
Plains (near) (8)	15700	125	Apr-Sept	6703	12601
	14420	125	Apr-July	6104	11523
	12300	124	Apr-June	5354	9934
THOMPSON RIVER					
Thompson Falls (near)	370	134	Apr-Sept		277
	340	137	Apr-July		248
PROSPECT CREEK					
Thompson Falls (at)	205	139	Apr-Sept		147
	195	142	Apr-July		137
CLARK FORK RIVER					
Whitehorse Rapids (at) (9)	17800	124	Apr-Sept		14336
	16270	124	Apr-July		13086
	13800	122	Apr-June		11325

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.



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1. The first part of the document is a list of items, each with a number and a description. The items are arranged in a columnar format, with the numbers in the left column and the descriptions in the right column. The descriptions are written in a cursive script, which is difficult to read. The list appears to be a catalog or inventory of some kind.

2. The second part of the document is a series of paragraphs, each beginning with a number. The paragraphs are written in a cursive script, which is difficult to read. The paragraphs appear to be a narrative or a report of some kind.

3. The third part of the document is a series of paragraphs, each beginning with a number. The paragraphs are written in a cursive script, which is difficult to read. The paragraphs appear to be a narrative or a report of some kind.

4. The fourth part of the document is a series of paragraphs, each beginning with a number. The paragraphs are written in a cursive script, which is difficult to read. The paragraphs appear to be a narrative or a report of some kind.

5. The fifth part of the document is a series of paragraphs, each beginning with a number. The paragraphs are written in a cursive script, which is difficult to read. The paragraphs appear to be a narrative or a report of some kind.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near) (11) (12)	195	134	Apr-Sept	133	145
	180	142	Apr-July	114	127
RUBY RIVER					
Alder (near)	114	121	Apr-Sept		93.9
	98	123	Apr-July		79.4
BIG HOLE RIVER					
Melrose (near)	845	113	Apr-Sept		748
	810	117	Apr-July		694
BIRCH CREEK					
Glen (near)	17.2	126	Apr-Sept		13.7
	14.5	126	Apr-July		11.5
JEFFERSON RIVER					
Silver Star (at)	1140	118	Apr-Sept		970
	1020	118	Apr-July		865
WILLOW CREEK					
Harrison (near)	27.7	147	Apr-Sept		18.9
	25.0	146	Apr-July		17.1
MADISON RIVER					
Grayling (near) (13)	630	131	Apr-Sept	440	480
	510	136	Apr-July	335	374
MADISON RIVER					
McAllister (near) (14)	1100	133	Apr-Sept	788	828
	900	138	Apr-July	609	652
GALLATIN RIVER					
Gateway (near)	595	112	Apr-Sept		531
	515	114	Apr-July		451

- (11) Adjusted for storage in Lima Reservoir.
- (12) Adjusted for storage in Clark Canyon Reservoir.
- (13) Adjusted for storage in Hebgen Lake.
- (14) Adjusted for storage in Hebgen and Ennis Lakes.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near) (15)	48.0	109	Apr-Sept		44.2
	42.0	110	Apr-July		38.2
GALLATIN RIVER					
Logan (at)	670	117	Apr-Sept		573
	580	119	Apr-July		487
MISSOURI RIVER					
Toston (at) (16)	3050	125	Apr-Sept	1804	2432
	2670	127	Apr-July	1431	2109
SHEEP CREEK					
White Sulphur Springs (near)	23.5	114	Apr-Sept	10.6	20.6
	20.5	114	Apr-July	8.4	18.0
SUN RIVER					
Gibson Dam (at) (17)	670	114	Apr-Sept	285	590
	620	115	Apr-July	258	541
BELT CREEK					
Monarch (near)	140	114	Apr-Sept		123
	130	115	Apr-July		113
MISSOURI RIVER					
Fort Benton (at) (18)	4500	122	Apr-Sept		3690
	3890	125	Apr-July		3123
TWO MEDICINE CREEK					
Browning (near) (19)	280	111	Apr-Sept		253
	270	112	Apr-July		240
BADGER CREEK					
Browning (near)	143	110	Apr-Sept		130
	125	111	Apr-July		113
MARIAS RIVER					
Shelby (near) (20)	640	114	Apr-Sept		559
	605	112	Apr-July		538

(15) Adjusted for storage in Middle Creek Reservoir.

(16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.

(17) Adjusted for storage in Gibson Reservoir and diversions.

(18) Adjusted for storage in Canyon Ferry Reservoir.

(19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.

(20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances and Swift Reservoirs.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER					
Virgelle (at) (21)	5200	120	Apr-Sept	4342	
	4600	123	Apr-July	3742	
SOUTH FORK JUDITH RIVER					
Utica (near)	16.5	111	Apr-Sept	14.9	
	15.5	113	Apr-July	13.7	
MISSOURI RIVER					
Landusky (near) (21)	5600	118	Apr-Sept	4739	
	4900	120	Apr-July	4068	
NORTH FORK MUSSELSHELL RIVER					
Delpine (near)	7.5	121	Apr-Sept	6.2	
	6.5	120	Apr-July	5.4	
SOUTH FORK MUSSELSHELL RIVER					
Martinsdale (above)	57	114	Apr-Sept	50.1	
	55	116	Apr-July	47.3	
MISSOURI RIVER					
Fort Peck Dam (below) (22)	5500	120	Apr-Sept	4598	
	4900	120	Apr-July	4069	
MILK RIVER					
Eastern Crossing (at)	270	104	Apr-Sept	260	
MISSOURI RIVER					
Wolf Point (near) (22)	5900	120	Apr-Sept	4898	
	5300	122	Apr-July	4361	
MISSOURI RIVER					
Williston, N.D. (near) (29)	14000	119	Apr-Sept	11778	
	12600	121	Apr-July	10437	

SASKATCHEWAN RIVER BASIN

ST. MARY RIVER					
Babb (near) (30)	525	120	Apr-Sept	438	
	460	124	Apr-July	471	

- (21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.
 (22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.
 (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.
 (30) Adjusted for storage in Lake Sherburne.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	2490	125	Apr-Sept	1485	1996
	2100	126	Apr-July	1231	1662
YELLOWSTONE RIVER					
Livingston (near)	2950	127	Apr-Sept		2317
	2450	127	Apr-July		1926
BOULDER RIVER					
Big Timber (at)	450	119	Apr-Sept		379
	425	121	Apr-July		350
STILLWATER RIVER					
Absarokee (near) (25)	610	103	Apr-Sept		591
	520	105	Apr-July		494
CLARKS FORK RIVER					
Belfry (near)	720	119	Apr-Sept		607
	650	119	Apr-July		546
ROCK CREEK					
Red Lodge (near)	126	115	Apr-Sept	80.6	110
	98.0	117	Apr-July	55.3	84.0
YELLOWSTONE RIVER					
Billings (at)	5150	121	Apr-Sept	3588	4246
	4440	123	Apr-July	2994	3613
BIG HORN RIVER					
St. Xavier (near) (26)	2200	119	Apr-Sept	1912	1849
	2050	120	Apr-July	1567	1706
LITTLE BIG HORN RIVER					
Lodgegrass (near) (28)	112	77	Apr-Sept		146
	100	78	Apr-July		129
YELLOWSTONE RIVER					
Miles City (at) (27)	7500	118	Apr-Sept		6378
	6650	120	Apr-July		5555
YELLOWSTONE RIVER					
Sidney (near) (27)	7750	116	Apr-Sept		6665
	7000	119	Apr-July		5895

- (25) Adjusted for storage in Mystic Lake.
- (26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.
- (27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.
- (28) Sum Little Big Horn below Pass Creek and Lodgegrass Creek near Wyola.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
AMEROSE	6480	3/26	50	16.4	11.4	13.8
ARCH FALLS	7350	3/27	44	14.4	11.2	14.0
AVALANCHE	7100	4/01	68	26.7	18.1	25.3
BADGER PASS	6900	3/27	129	49.6	26.0	42.0
PAID EAGLE PEAK	5700	3/28	208	92.0	48.4	68.0
BALD RIDGE	7500	3/28	42	13.2	10.2	14.0
BANFIELD MOUNTAIN	5600	3/27	88	36.2	19.0	25.5
BANFIELD MOUNTAIN PILLOW	5600	3/27	SP	31.1	16.5	21.8
BAREE CREEK	5500	4/02	180	75.0	31.1	49.4
BAREE MIDWAY	4600	4/01	131	54.1	24.4	37.7
BAREE TRAIL	3800	4/02	40	15.4	.0	9.6
BASSOO PEAK	5150	3/29	38	14.6	4.4	12.0
BATTLE RIDGE	6020	3/26	22	7.5	-	7.4
BEAR BASIN	8150	3/25	81	28.2	16.4	22.4
BEAR PAW SKI AREA	5200	3/27	30	8.4	1.4	6.3
BEAVER LAKE	5900	3/27	85	33.4	16.3	25.1
BERRY MEADOW	7000	3/25	33	11.1	5.0	8.3
BIG COULEE	5100	4/01	27	8.5	-	-
BIG CREEK	6750	3/27	140	59.1	37.5	49.7
BIG SNOWY	7150	4/01	62	24.4	16.5	19.9
BIG SPRINGS (ID)	6500	3/28	80	30.0	18.1	21.3
BLACK BEAR	7950	3/29	165	66.8	34.5	-
BLACK BEAR PILLOW	7950	3/29	SP	57.6	31.4	-
BLACK CANYON (ID)	7850	3/26	131	50.7	30.6	34.0
BLACK MOOSE (ID)	8120	3/26	143	60.5	36.2	39.8
BLACK PINE	7100	3/26	51	18.3	9.9	14.0
BLACK PINE PILLOW	7100	3/26	SP	16.3	10.6	14.2
BLOODY DICK	7600	3/28	55	17.8	8.6	14.0
BLUE LAKE	5900	3/27	89	36.0	17.6	28.2
BLUE LEDGE MINE (ID)	6700	3/30	64	23.3	14.7	17.2
BOTS BOTS	8000	3/29	27	7.7	11.2	-
BOULDER MOUNTAIN	7950	3/25	75	27.8	12.6	19.5
BOX RIVER #1 (AL)	5100	3/26	44	10.9	6.9	8.9
BOXELDER CREEK	5100	3/27	39	9.3	2.8	-
BRANHAM LAKES	8850	3/30	114	44.5	23.0	31.6
BRIDGER BOWL	7250	3/26	86	32.0	17.0	30.8
BRIDGER BOWL PILLOW	7250	3/26	SP	31.7	18.3	29.6
BRISTOW CREEK	3900	3/27	44	17.6	8.0	13.4
BRUSH CREEK TIMBER	5000	3/27	39	13.0	7.0	10.9
BULL MOUNTAIN	6600	3/29	28	9.0	-	-
CABIN CREEK	5200	3/30	26	7.9	2.6	7.4
CALVERT CREEK	6450	4/02	51	16.1	7.6	10.6
CAMP CREEK (ID)	6800	3/28	34	10.9	8.7	10.4
CAMP MISERY	6400	3/28	168	71.1	42.4	49.6
CAMP SENIA	7890	3/29	22	4.6	9.7	7.2
CARROT BASIN	9000	4/03	136	57.9	32.8	38.1
CARROT BASIN PILLOW	9000	4/03	SP	40.6	-	28.6
CARTER CREEK	7400	4/02	25	6.8	8.4	6.4

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
CEDAR GROVE	4100	3/28	49	19.6	5.7	12.7
CHATEAU LAWN #8 (AL)	5700	3/25	52	15.0	12.8	11.1
CHESSMAN RESERVOIR	6200	3/28	15	4.5	4.3	3.3
COLE CREEK	7850	4/01	47	15.2	-	-
COMBINATION	5600	3/26	28	9.3	4.5	8.1
COMBINATION PILLOW	5600	3/26	SP	7.9	5.0	-
COOKE STATION	8150	3/28	75	23.1	13.3	20.5
COPPER BOTTOM	5200	3/29	42	15.0	6.4	-
COPPER CAMP	6950	3/29	105	42.0	20.1	-
COPPER CREEK	5700	3/29	50	19.0	9.2	16.3
COPPER LAKE CREEK	6100	3/29	78	31.6	14.6	-
COPPER MOUNTAIN	7700	4/01	47	14.7	9.0	12.3
COTTONWOOD CREEK	6400	3/28	29	9.6	-	-
COYOTE HILL	4200	3/28	36	13.4	3.2	10.5
CREVICE MOUNTAIN	8400	4/03	51	14.0	5.8	10.6
CRYSTAL LAKE	6100	4/01	42	15.8	12.6	14.5
DAISY PEAK	7600	4/01	46	12.8	9.2	11.6
DAVIS CREEK	5400	3/26	93	39.9	22.3	26.5
DEADMAN CREEK	6450	3/27	39	13.3	6.8	12.7
DEADMAN CREEK PILLOW	6450	3/27	SP	12.2	5.7	11.0
DESERT MOUNTAIN	5600	3/29	64	22.0	13.2	17.2
DEVILS SLIDE	8100	3/27	71	25.5	17.5	24.7
DIX HILL	6400	3/31	31	10.5	-	-
EAGLE CREEK	7000	3/29	53	17.9	8.8	14.9
EAST FORK R.S.	5400	4/01	24	8.1	3.8	6.7
EL DORADO MINE	7800	3/27	66	23.7	17.2	23.1
ELK HORN SPRINGS	7800	3/26	47	13.1	5.9	9.7
ELK PEAK	8000	3/26	59	19.2	10.4	19.2
FATTY CREEK	5500	3/27	84	32.1	17.5	24.8
FISHER CREEK	9100	3/28	145	56.0	28.6	38.5
FISHER CREEK PILLOW	9100	3/28	SP	50.0	26.1	35.0
FIVE-BULL	5700	3/27	22	7.9	3.6	7.5
FLEECER RIDGE	7500	3/29	48	15.0	-	-
FOUR MILE	6900	3/25	38	12.0	8.4	9.1
FRED BURR PASS	8000	3/27	76	25.3	17.9	28.2
FREIGHT CREEK	6000	3/27	52	20.4	8.0	16.8
FROHNER MEADOWS	6480	3/26	35	11.3	6.9	-
FROHNER MEADOWS PILLOW	6480	3/26	SP	10.5	7.4	-
GARVER CREEK	4250	3/26	47	16.9	10.3	12.8
GARVER CREEK PILLOW	4250	3/26	SP	16.4	-	10.4
GIBBONS PASS	7100	3/27	88	32.9	21.0	23.7
GOAT MOUNTAIN	7000	3/31	46	13.4	6.6	11.8
GOLD CREEK LAKE	7200	3/27	52	18.2	13.9	17.1
GOLD STONE	8100	3/28	67	22.4	10.4	17.9
GRASSHOPPER	7000	3/26	20	6.4	5.5	5.9
GRAVES CREEK	4300	3/25	71	26.9	13.1	19.4
GRIFFIN CREEK DIVIDE	5150	3/28	44	15.6	8.6	12.4
GRIZZLY PEAK	8400	4/01	44	13.7	17.8	17.5
GUNSIGHT LAKE	6300	3/27	132	51.4	29.9	42.9
HAWKINS LAKE	6450	3/26	123	51.7	28.5	32.8



SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
HAWKINS LAKE PILLOW	6450	3/26	SP	48.2	25.3	30.4
HEART LAKE TRAIL	4800	3/27	81	33.0	9.2	23.4
HEBGEN DAM	6550	4/03	47	16.0	9.2	11.6
HELL ROARING DIVIDE	5770	3/28	116	48.6	26.4	34.0
HIGHWOOD DIVIDE	5650	4/01	31	10.0	-	-
HIGHWOOD STATION	4600	4/01	11	4.2	-	-
HOLBROOK	4530	3/31	42	13.2	3.7	10.5
HOOD MEADOW	6600	3/27	38	12.4	11.3	12.0
HOODOO BASIN	6000	3/27	164	73.6	35.4	53.8
HOODOO CREEK	5900	3/27	154	67.7	33.4	50.3
HUDSON BAY DIVIDE	5800	3/29	65	22.6	11.1	18.5
INDEPENDENCE	7850	4/01	73	25.8	12.6	19.1
INTERGAARD	6450	3/31	37	11.1	7.2	9.2
ISLAND PARK (ID)	6310	3/28	63	22.3	13.2	16.4
JACK CREEK	7500	3/26	25	7.4	7.2	6.1
JAHNKE LAKE TRAIL	7200	3/28	46	14.1	8.0	9.7
JOHNSON PARK	6450	4/01	21	6.0	4.6	7.2
KILGORE (ID)	6200	3/30	33	12.0	9.7	10.9
KING CREEK SADDLE	4550	4/01	0	.0	.0	-
KING SPRINGS	4150	4/01	0	.0	.0	-
KINGS HILL	7500	4/01	58	19.6	8.5	15.2
KISHENEHN	3890	4/02	31	10.5	4.6	8.4
KIT CARSON (ID)	5020	3/25	41	14.8	5.4	9.1
KIWANIS CAMP	3720	3/27	1	.1	.0	-
LAKE CAMP (WY)	7850	3/31	49	12.7	7.2	9.9
LAKE CREEK	6100	3/27	31	7.3	7.2	7.5
LAKEVIEW CANYON	6930	3/29	50	16.8	9.4	13.6
LAKEVIEW RIDGE	7400	3/29	46	15.2	8.4	11.6
LATHAM SPRINGS (ID)	7650	3/26	128	50.9	31.4	32.6
LEMHI PASS	7480	3/27	33	10.4	7.0	9.2
LEMHI RIDGE	8100	3/27	44	13.8	8.2	10.4
LICK CREEK	6860	3/27	33	10.5	10.7	10.6
LICK CREEK PILLOW	6860	3/27	SP	8.4	9.1	10.6
LITTLE PARK	7400	3/25	63	20.4	10.8	17.0
LOGAN CREEK	4300	3/27	30	9.9	3.8	8.0
LOLO PASS (ID)	5230	3/27	97	41.2	20.2	32.8
LOOKOUT (ID)	5250	3/27	122	47.1	20.8	36.7
LOST HORSE	5940	3/29	121	48.8	23.6	33.7
LOST SOUL	4800	3/27	62	24.5	12.1	17.2
LOWER TWIN	7900	3/25	81	29.4	17.6	22.5
LUBRECHT FLUME	4800	4/01	25	8.8	1.8	5.1
LUBRECHT FLUME PILLOW	4800	4/01	SP	8.0	1.8	5.7
LUBRECHT FOREST # 3	5450	4/02	27	9.2	4.6	7.4
LUBRECHT FOREST # 4	4650	4/02	12	4.1	.5	2.3
LUBRECHT FOREST # 6	4040	4/02	13	4.6	.0	2.8
LUBRECHT HYDROPLOT	4200	4/01	21	7.8	.0	3.2
LUPINE CREEK (WY)	7300	3/31	49	17.0	8.1	10.3
MADISON PLATEAU	7750	3/29	96	35.6	19.2	22.6
MADISON PLATEAU PILLOW	7750	3/29	SP	36.0	19.5	23.2
MARIAS PASS	5250	3/28	56	19.1	11.4	19.6

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
MAYNARD CREEK	6210	3/26	62	19.1	14.8	19.4
MAYNARD CREEK PILLOW	6210	3/26	SP	11.6	8.0	12.7
MIDDLE FORK	7300	3/25	59	18.8	-	-
MIDDLE MILL CREEK	7850	3/30	69	24.8	13.3	16.6
MILL CREEK	7500	3/29	40	12.7	9.9	14.3
MINERAL CREEK	4000	3/30	72	23.0	11.9	20.0
MIRROR LAKE #6 (AL)	6600	3/25	49	16.5	11.0	12.5
MISSION MOUNTAIN	5050	4/01	0	.0	.0	-
MONUMENT PEAK	8800	4/01	106	36.2	18.6	27.8
MOOSE CREEK (ID)	6200	3/28	63	21.8	12.7	16.9
MOUNT LOCKHART	6400	4/01	79	29.4	11.8	25.0
MOUNT LOCKHART PILLOW	6400	4/01	SP	26.8	13.8	22.5
MT. EISENHOWER #10 (AL)	5000	3/27	28	7.2	4.7	5.5
MUDD LAKE	7650	4/02	80	28.2	14.0	23.0
NEW WORLD	6900	3/26	50	16.8	11.2	16.3
NEZ PERCE CAMP	5580	3/25	62	23.6	9.4	15.3
NEZ PERCE CREEK	6500	4/01	28	9.0	5.6	6.8
NEZ PERCE PASS	6570	3/25	66	25.4	11.8	17.3
NOISY BASIN	6040	3/28	154	62.3	-	-
NOISY CREEK	3600	3/28	12	3.9	.0	-
NORRIS BASIN (WY)	7500	4/02	46	14.3	8.3	11.0
NORTH FK. ELK CREEK	6250	4/01	42	15.0	8.7	12.7
NORTH FK. ELK CREEK PILL	6250	4/01	SP	15.3	8.5	13.1
NORTH FORK JUCKO	6330	3/28	127	52.2	32.3	49.6
NORTH MEADOW	7500	3/25	44	12.8	8.2	9.2
NORTHEAST ENTRANCE	7400	4/02	39	11.4	4.8	9.5
NORTHEAST ENTRANCE PILL.	7400	4/02	SP	10.8	6.6	9.3
PALISADE CREEK	8250	4/02	115	44.1	22.3	31.4
PETERSON MEADOWS	7200	3/26	39	11.2	7.9	-
PETERSON MEADOWS PILLOW	7200	3/26	SP	11.3	9.2	-
PICNIC GROUNDS	6200	4/01	18	6.3	3.3	4.6
PIPESTONE PASS	7200	4/01	20	6.5	4.2	6.2
PIPESTONE UPPER #2 (AL)	5300	3/26	38	7.6	5.9	8.9
POORMAN CREEK	5100	3/28	122	52.8	24.5	38.0
POORMAN CREEK PILLOW	5100	3/28	SP	50.1	21.4	32.1
PORCUPINE R.S.	6500	3/28	22	7.2	7.2	8.1
POTOMAGETON PARK	7150	3/27	56	19.9	11.2	15.3
RED LION	7100	3/27	55	16.0	10.9	17.6
RED MOUNTAIN	6000	3/29	80	30.1	16.0	20.1
ROCK CREEK	5600	4/01	23	8.4	8.2	10.2
ROCKER PEAK	8000	3/25	56	16.8	10.8	16.7
ROCKER PEAK PILLOW	8000	3/25	SP	16.6	11.4	16.7
ROCKY BOY	4700	3/27	19	5.8	.0	4.7
ROCKY BOY PILLOW	4700	3/27	SP	9.2	.6	5.1
SACAJAWEA	6550	3/26	48	14.9	11.0	15.3
SADDLE MOUNTAIN	7940	3/28	93	35.4	19.6	26.4
SADDLE MOUNTAIN PILLOW	7940	3/28	SP	37.0	21.1	28.2
SAWTELL MOUNTAIN (ID)	8710	3/28	134	48.0	29.3	35.3
SENTINEL CREEK	8300	3/27	87	31.2	20.0	24.6
SHOWER FALLS	8100	3/27	82	31.2	21.3	29.4



SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average
SHOWER FALLS PILLOW	8100	3/27	SP	26.5	18.8	26.3
SKALKAHO SUMMIT	7260	3/25	87	31.9	18.5	27.4
SLIDE ROCK MOUNTAIN	7100	3/26	63	22.6	12.0	18.0
SMUGGLER MINE	6960	3/30	47	14.8	8.1	11.1
SOUTH FORK SHIELDS	8100	3/28	80	29.4	17.6	26.1
SPOTTED BEAR MOUNTAIN	7000	3/27	55	22.2	10.8	15.6
SPUR PARK	8000	3/27	68	25.4	12.4	23.6
SPUR PARK PILLOW	8100	3/27	SP	25.4	13.7	23.5
STAHL PEAK	6050	3/25	142	58.4	37.2	41.4
STEMPLE PASS	6600	3/28	44	12.4	6.8	11.4
STORM LAKE	7780	3/26	44	14.0	10.4	15.0
STUART MILL	6500	3/31	25	8.9	6.0	7.5
STUART MOUNTAIN	7400	3/28	103	42.6	23.9	34.2
SUCKER CREEK	3960	3/27	1	.1	.0	-
SUGARLOAF	7350	3/28	37	11.7	-	-
SYLVAN PASS (WY)	7100	3/30	57	17.7	10.5	13.8
TARGHEE PASS (ID)	7000	3/28	58	18.0	10.5	16.2
TAYLOR ROAD	4080	3/27	1	.1	.0	-
TEN MILE LOWER	6600	3/29	32	9.4	7.0	7.8
TEN MILE MIDDLE	6800	3/29	47	14.2	10.6	12.6
TEN MILE UPPER	8000	3/29	54	17.4	10.9	15.0
TEPEE CREEK	8000	3/27	64	20.4	12.2	16.4
TEPEE CREEK PILLOW	8000	3/27	SP	16.9	10.6	-
THUMB DIVIDE (WY)	7900	3/27	83	28.4	15.1	22.2
TIMBERLINE CREEK	8850	3/29	54	14.9	15.3	16.1
TRAIL CREEK	7090	3/27	33	10.6	6.4	9.0
TRINKUS LAKE	6100	3/27	137	56.0	39.6	46.5
TV MOUNTAIN	6800	3/29	70	24.6	14.0	20.3
TWELVEMILE CREEK	5600	3/29	88	34.4	14.3	21.1
TWELVEMILE CREEK PILLOW	5600	3/29	SP	29.4	12.7	18.6
TWENTY-ONE MILE	7150	4/03	80	28.4	12.2	17.9
TWIN CREEKS	3580	3/27	48	19.9	.0	11.7
TWIN LAKES	6510	3/29	141	59.0	28.8	43.7
TWIN LAKES PILLOW	6400	3/29	SP	56.8	28.6	42.7
UPPER HOLLAND LAKE	6200	3/27	108	44.9	25.6	38.3
VALLEY VIEW (ID)	6500	3/28	55	19.7	10.8	17.7
WALDRON	5600	4/01	36	13.0	3.5	12.2
WALDRON PILLOW	5600	4/01	SP	11.9	7.1	12.1
WEASEL DIVIDE	5450	3/25	123	50.6	29.3	36.4
WEST ROSEBUD	7500	3/28	34	8.4	8.8	12.4
WEST YELLOWSTONE	6700	4/03	53	19.2	10.2	11.4
WEST YELLOWSTONE PILLOW	6700	4/01	SP	13.7	7.5	8.8
WHISKEY CREEK	6800	3/29	84	31.2	16.5	22.1
WHITE ELEPHANT (ID)	7700	3/28	118	42.2	21.0	-
WHITE MILL	8700	3/28	108	39.2	19.5	27.7
WHITE MILL PILLOW	8700	3/28	SP	32.9	-	-
WHITE PINE RIDGE	8850				6.8	5.7
WILLOW CREEK	6500	4/01	24	8.1	-	-
WOLVERINE (WY)	7650	3/31	49	14.2	8.9	-
WRONG CREEK	5700	3/29	51	16.9	6.9	16.2

No.	Name	Sex	Age	Height	Weight
1	John Smith	Male	25	5' 8"	150 lbs
2	Mary Jones	Female	22	5' 4"	120 lbs
3	Robert Brown	Male	30	6' 0"	180 lbs
4	Elizabeth White	Female	28	5' 6"	130 lbs
5	William Black	Male	35	6' 2"	190 lbs
6	Anna Green	Female	32	5' 8"	140 lbs
7	Thomas Grey	Male	40	6' 4"	200 lbs
8	Sarah Hall	Female	38	5' 10"	150 lbs
9	James King	Male	45	6' 6"	210 lbs
10	Emily Lee	Female	42	5' 12"	160 lbs
11	George Clark	Male	50	6' 8"	220 lbs
12	Frances Adams	Female	48	5' 14"	170 lbs
13	Henry Scott	Male	55	7' 0"	230 lbs
14	Charlotte Baker	Female	52	5' 16"	180 lbs
15	Charles Wilson	Male	60	7' 2"	240 lbs
16	Elizabeth Davis	Female	58	5' 18"	190 lbs
17	Frederick Evans	Male	65	7' 4"	250 lbs
18	Isabella Turner	Female	62	5' 20"	200 lbs
19	Alfred Phillips	Male	70	7' 6"	260 lbs
20	Matilda Young	Female	68	5' 22"	210 lbs
21	Samuel King	Male	75	7' 8"	270 lbs
22	Ann Miller	Female	72	5' 24"	220 lbs
23	David Clark	Male	80	7' 10"	280 lbs
24	Elizabeth Taylor	Female	78	5' 26"	230 lbs
25	John Wilson	Male	85	7' 12"	290 lbs
26	Mary Adams	Female	82	5' 28"	240 lbs
27	Robert Brown	Male	90	7' 14"	300 lbs
28	Anna White	Female	88	5' 30"	250 lbs
29	Thomas Black	Male	95	7' 16"	310 lbs
30	Sarah Green	Female	92	5' 32"	260 lbs

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
WRONG RIDGE	6800	3/28	68	24.4	10.0	22.0

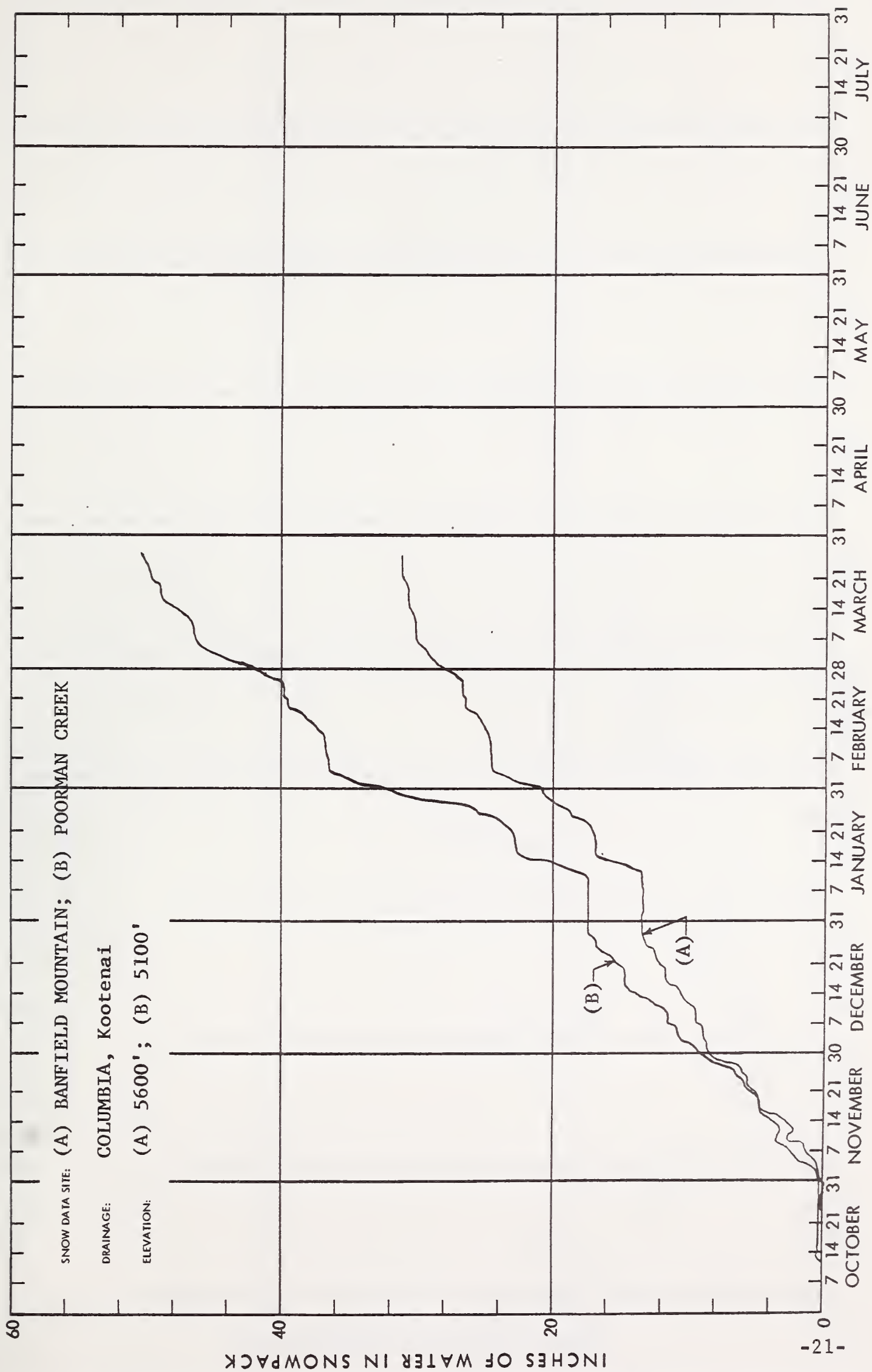
LATE ARRIVING DATA

ABUNDANCE LAKE	8800	4/7	83	31.8	16.5	20.9
CALL ROAD	8050	4/7	55	17.8	10.7	12.2
CLOVER MEADOW	8600	4/7	67	25.0	15.9	18.7
DAD CREEK LAKE	8400	4/7	58	19.6	12.1	15.3
DARK HORSE LAKE	8600	4/7	97	39.7	20.4	28.0
DIVIDE	7800	4/7	51	16.6	9.8	11.6
EAST BOULDER S	9250	4/5	115	41.5A	24.0	-
FOOLHEN	8280	4/7	71	26.0	12.3	18.2
NOTCH	8500	4/7	64	23.8	13.9	16.3
OPHIR PARK	7150	3/31	58	20.8	-	-
PICKET PIN D	9450	4/5	87	30.5A	22.5	-
PICKET PIN LOWER	6200	4/2	0	0.0	4.6	-
PICKET PIN MIDDLE	7250	4/2	31	12.2	12.1	-
PICKET PIN UPPER	8100	4/2	69	23.3	18.9	-
PLACER BASIN F	8800	4/5	68	23.0A	18.0	-
SLAG-A-MELT LAKE	8750	4/7	101	41.3	20.8	27.8
STAR LAKE E	8600	4/5	161	64.5A	32.0	-
WHITE PINE RIDGE	8850	4/7	26	6.7	6.8	5.7



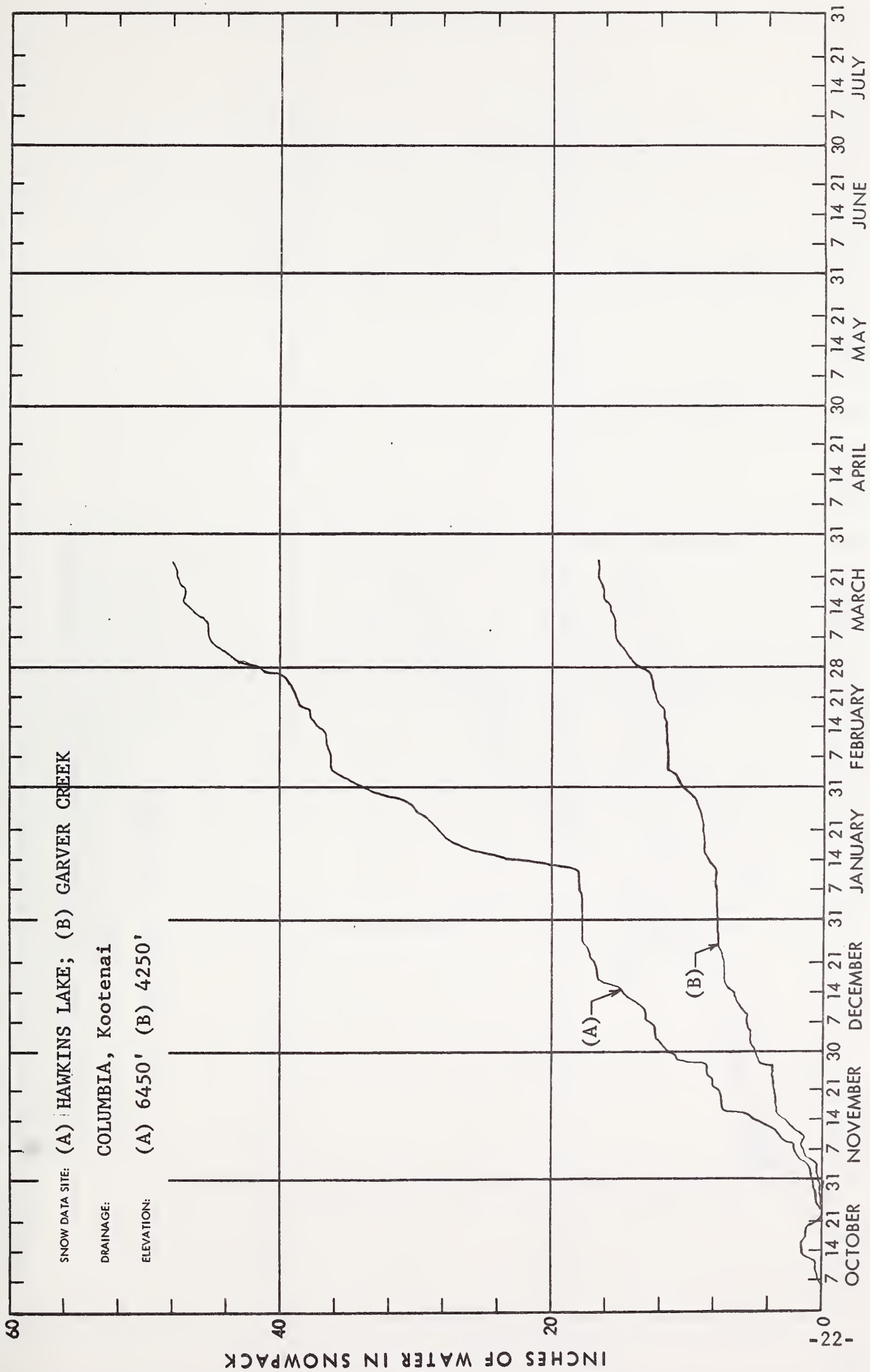
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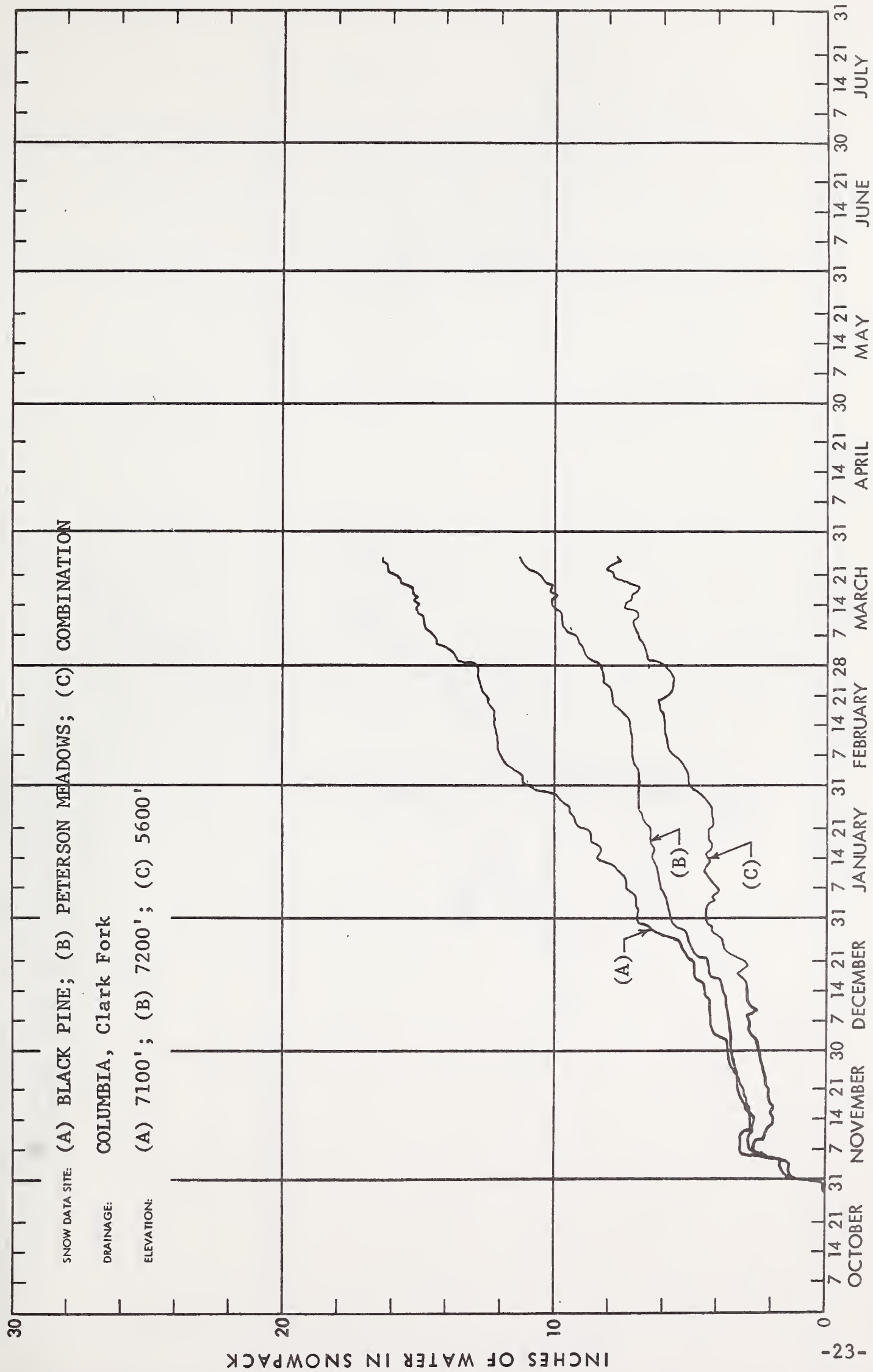


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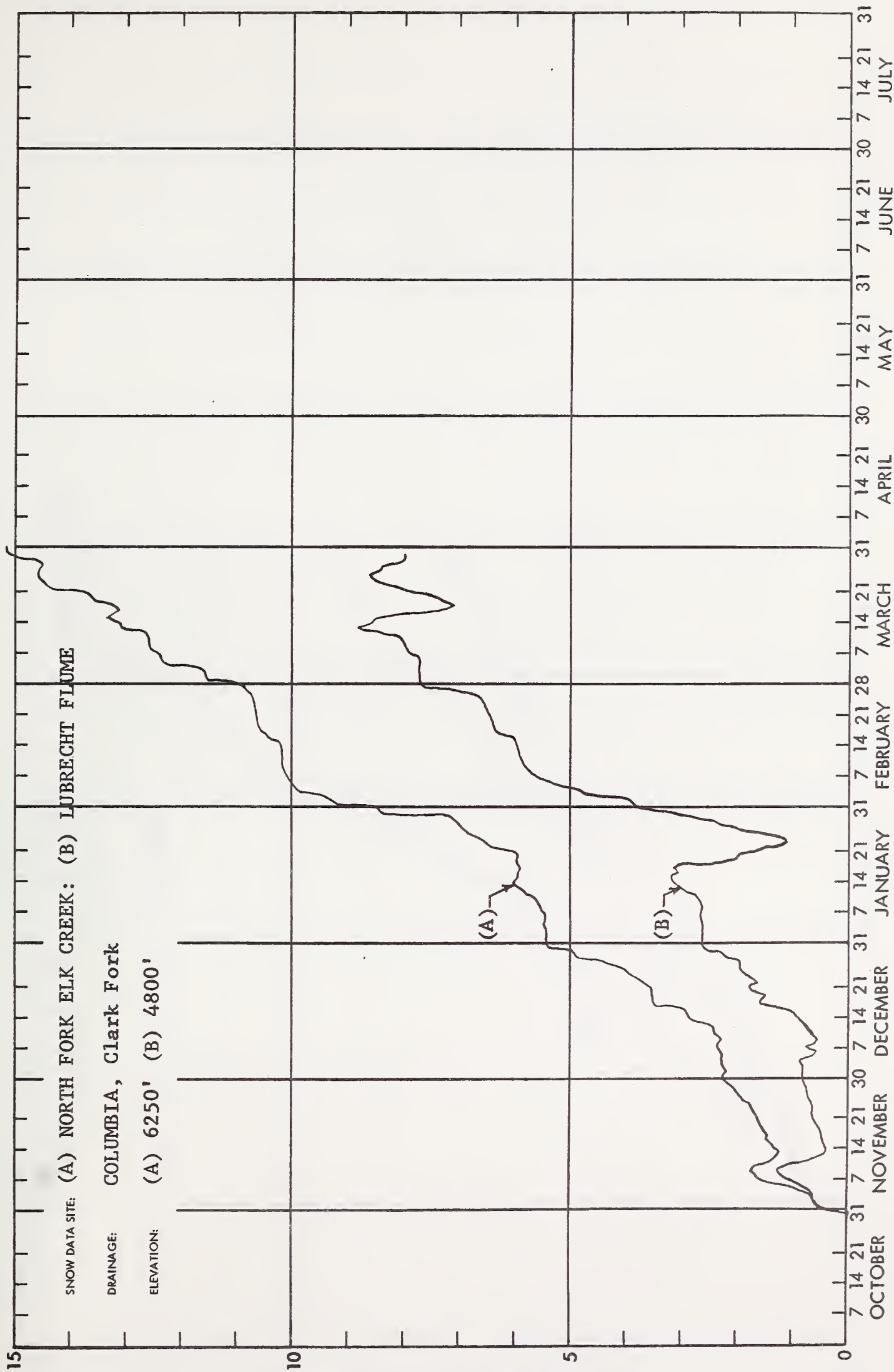


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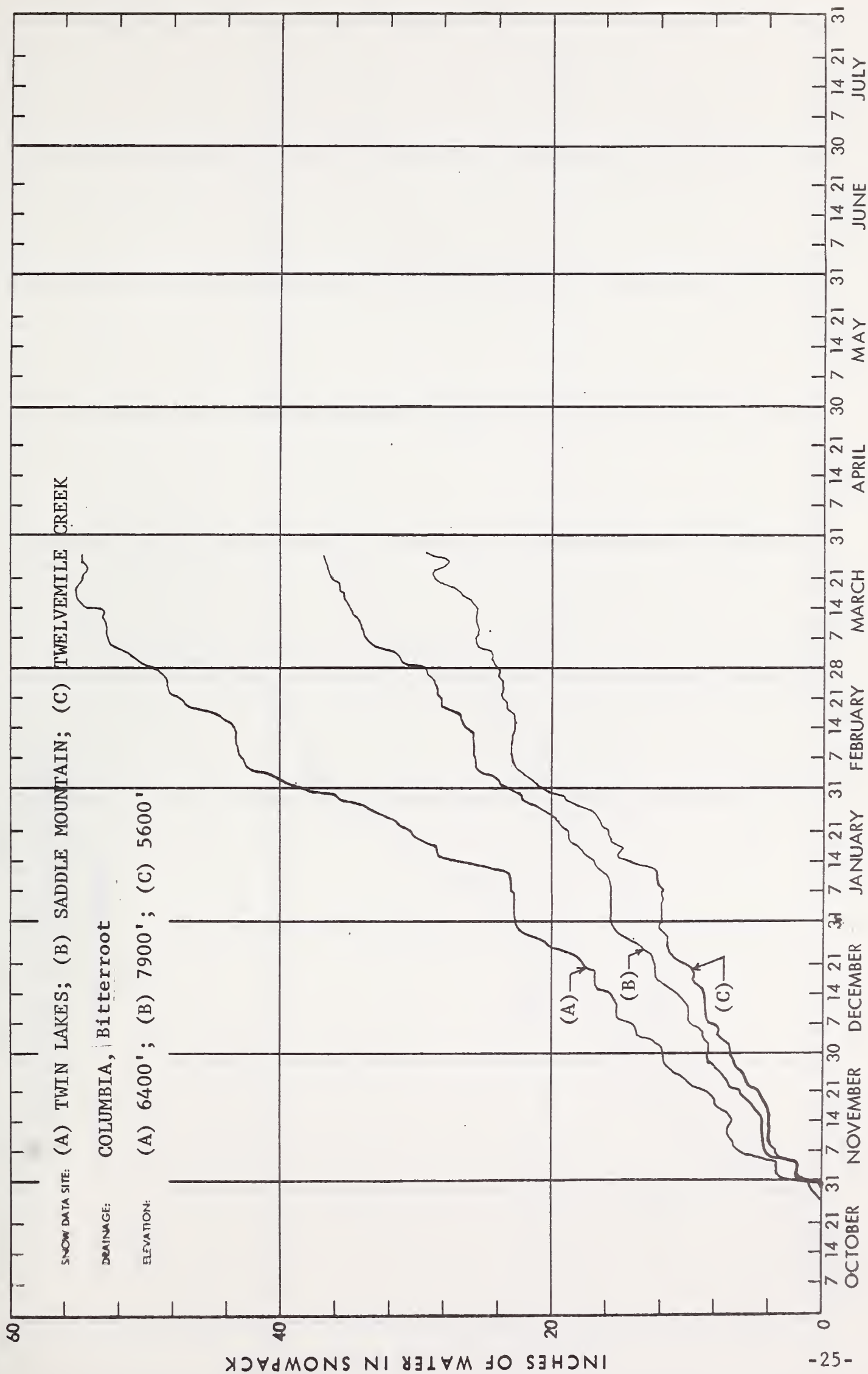


INCHES OF WATER IN SNOWPACK

-42-

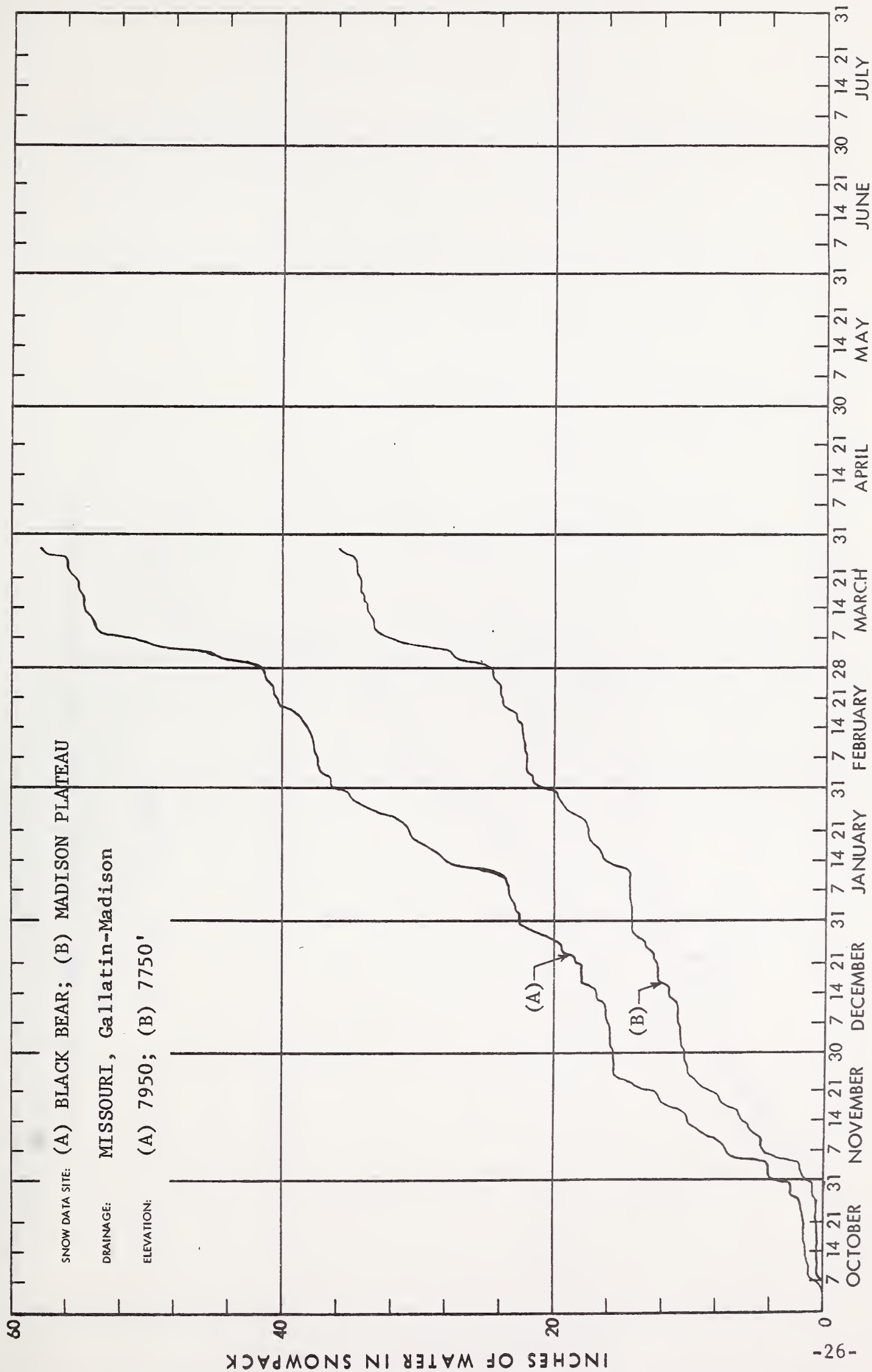


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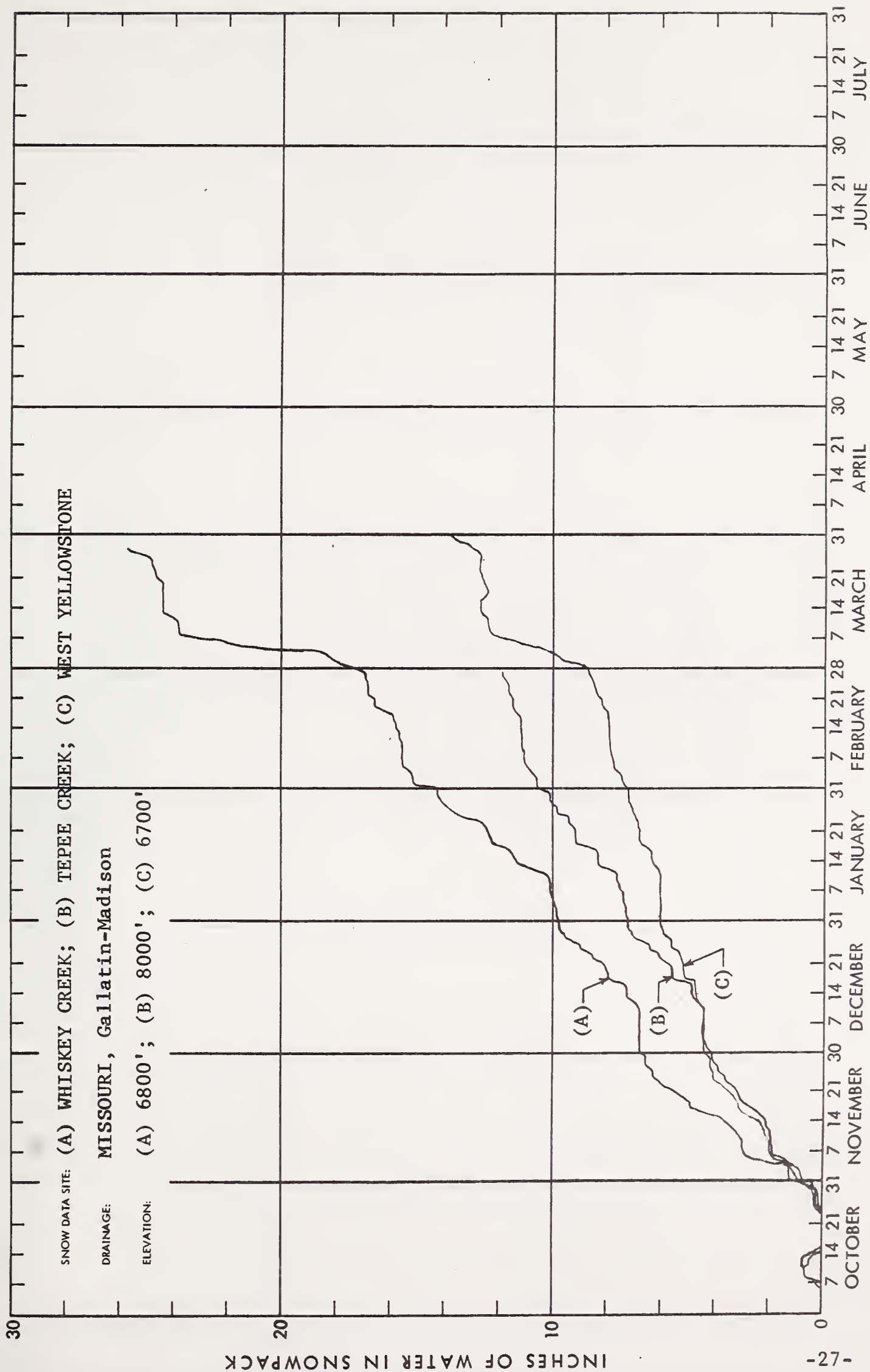


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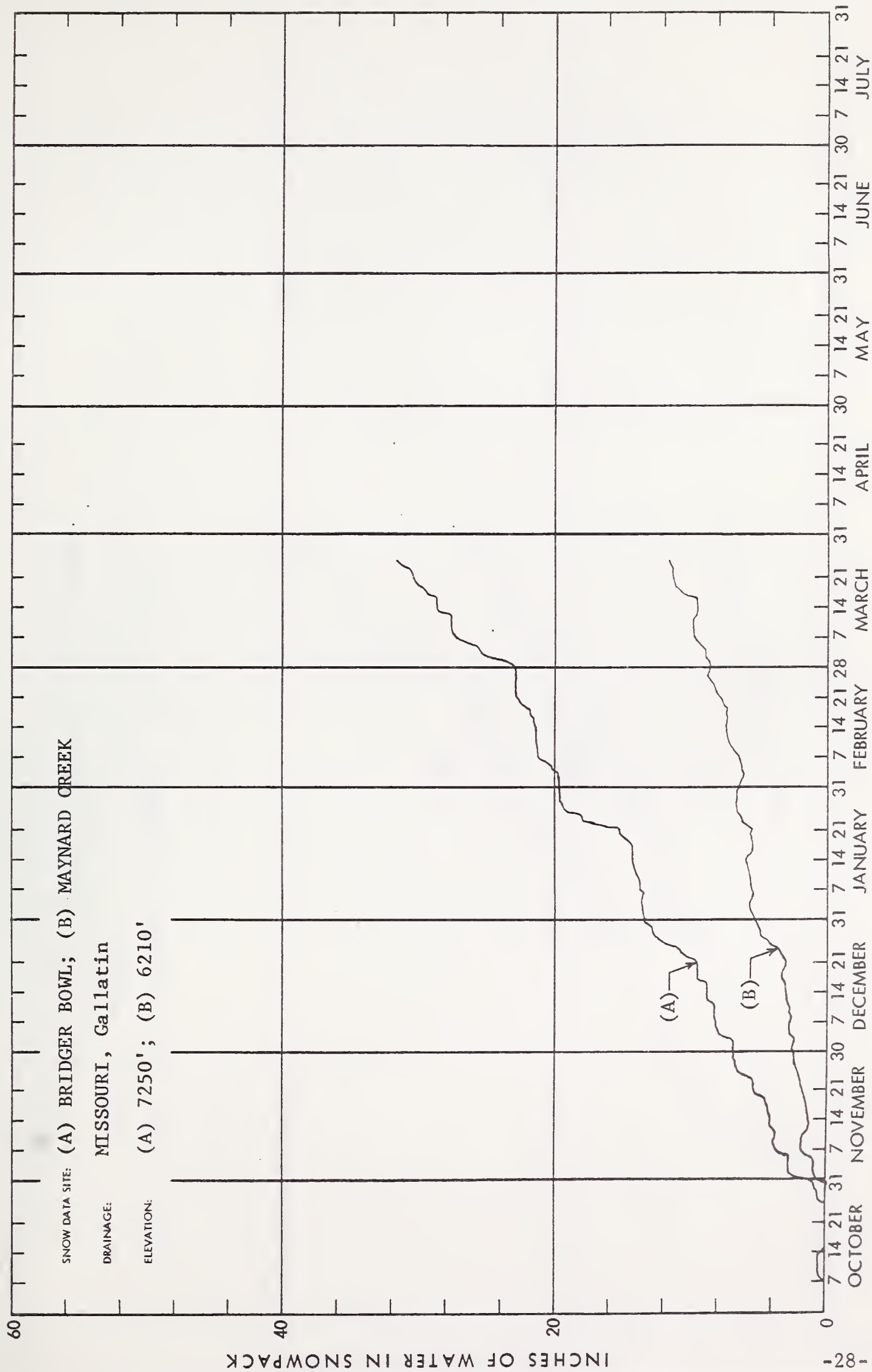


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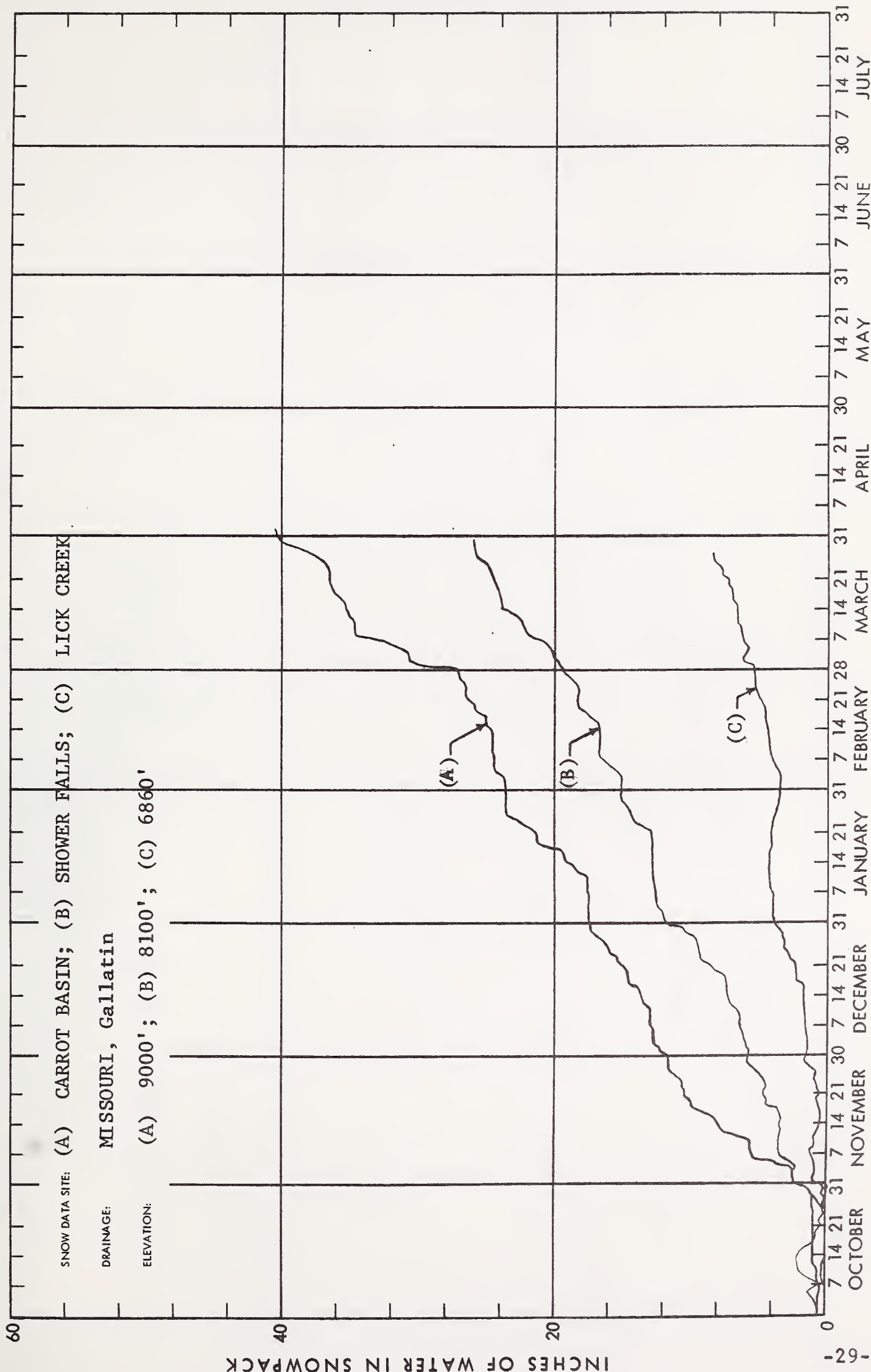
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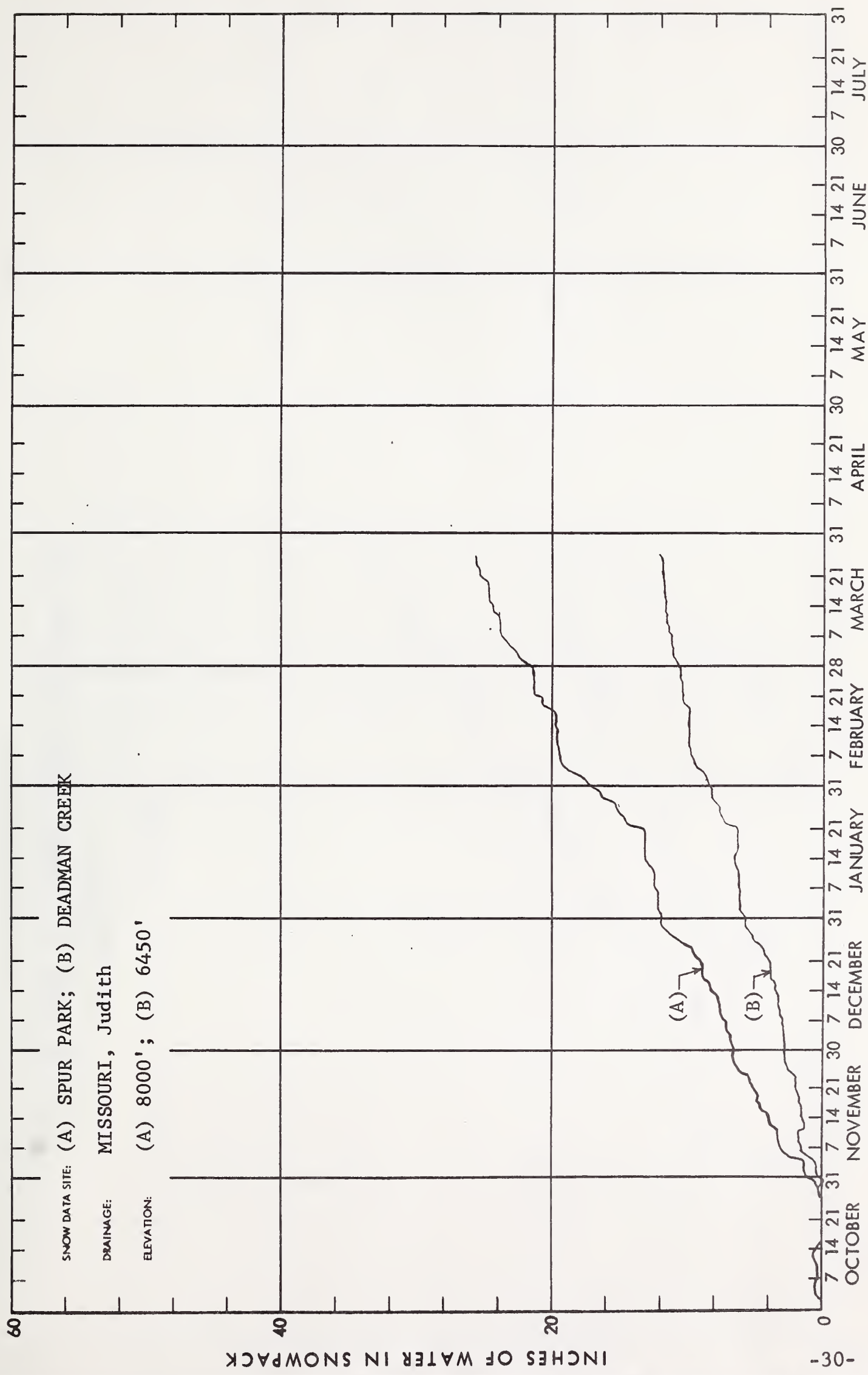
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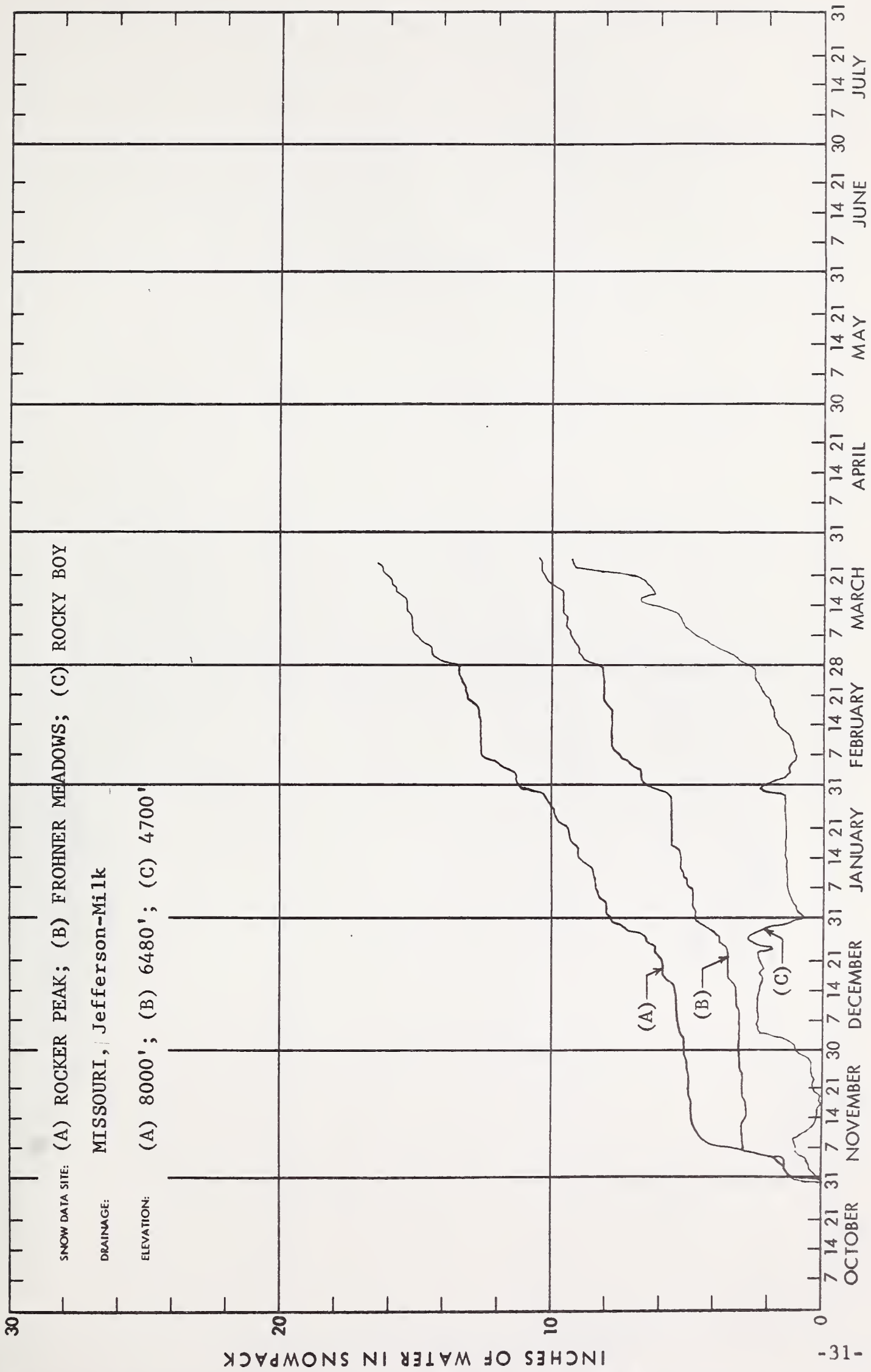
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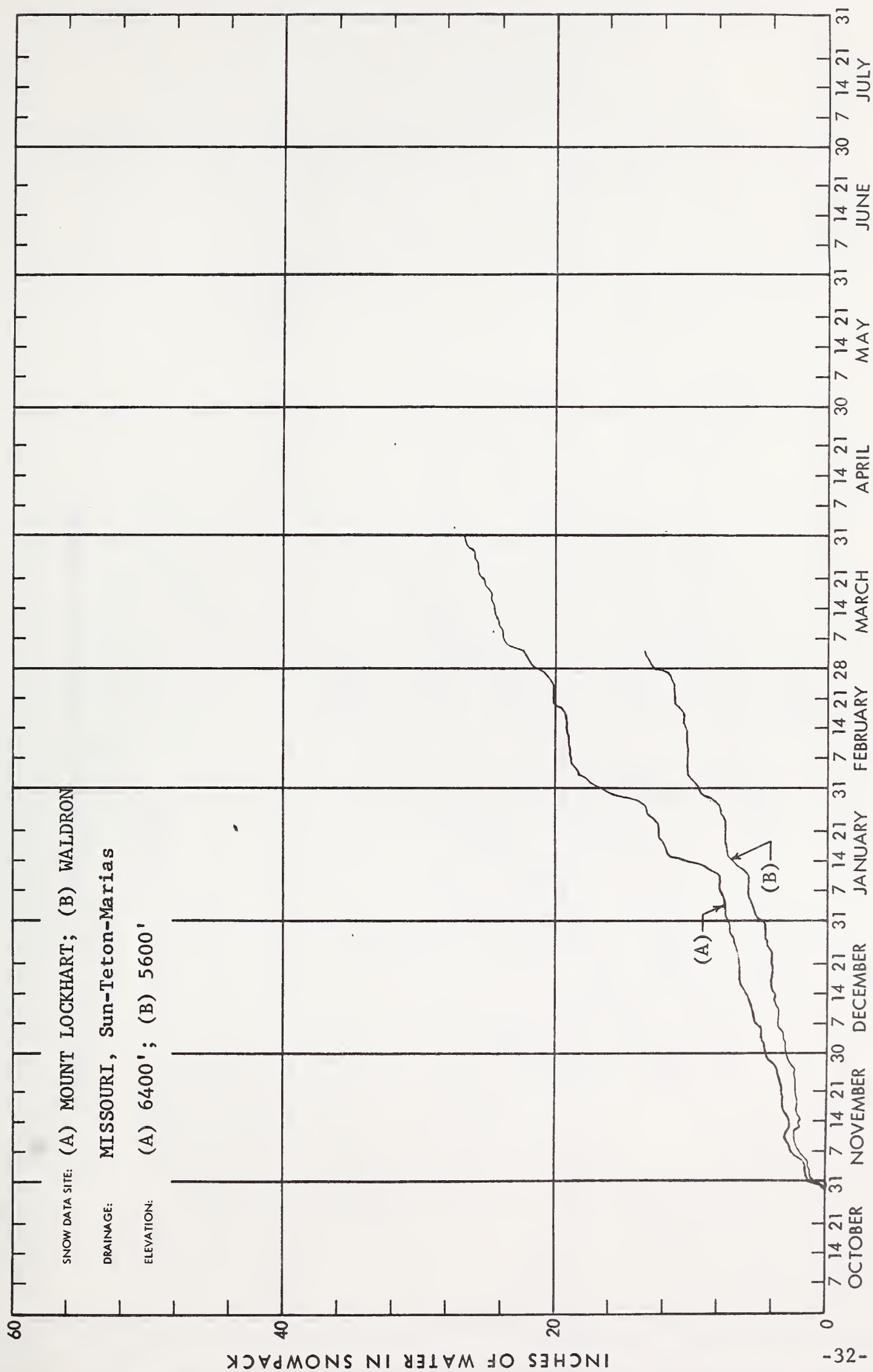


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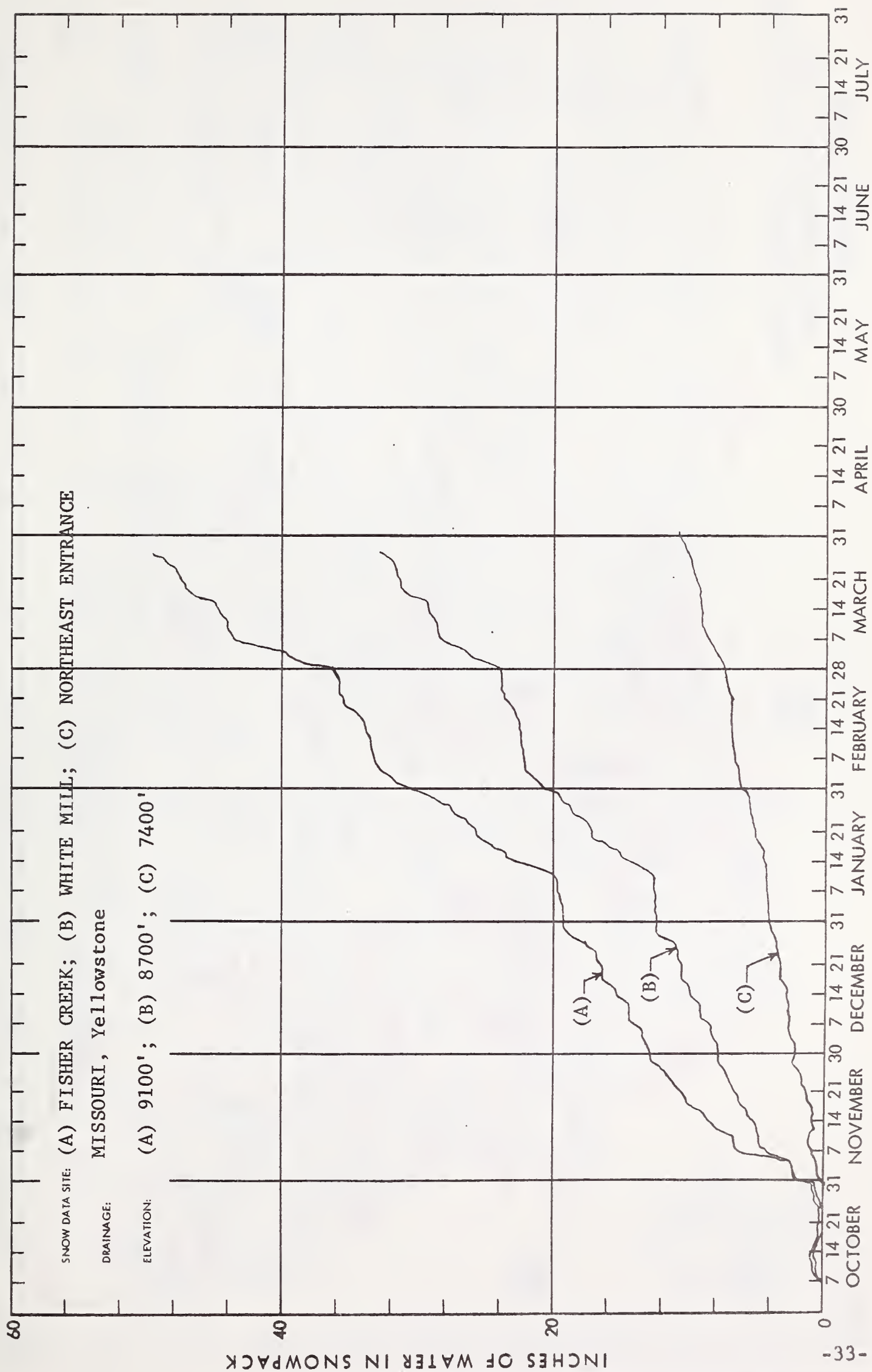
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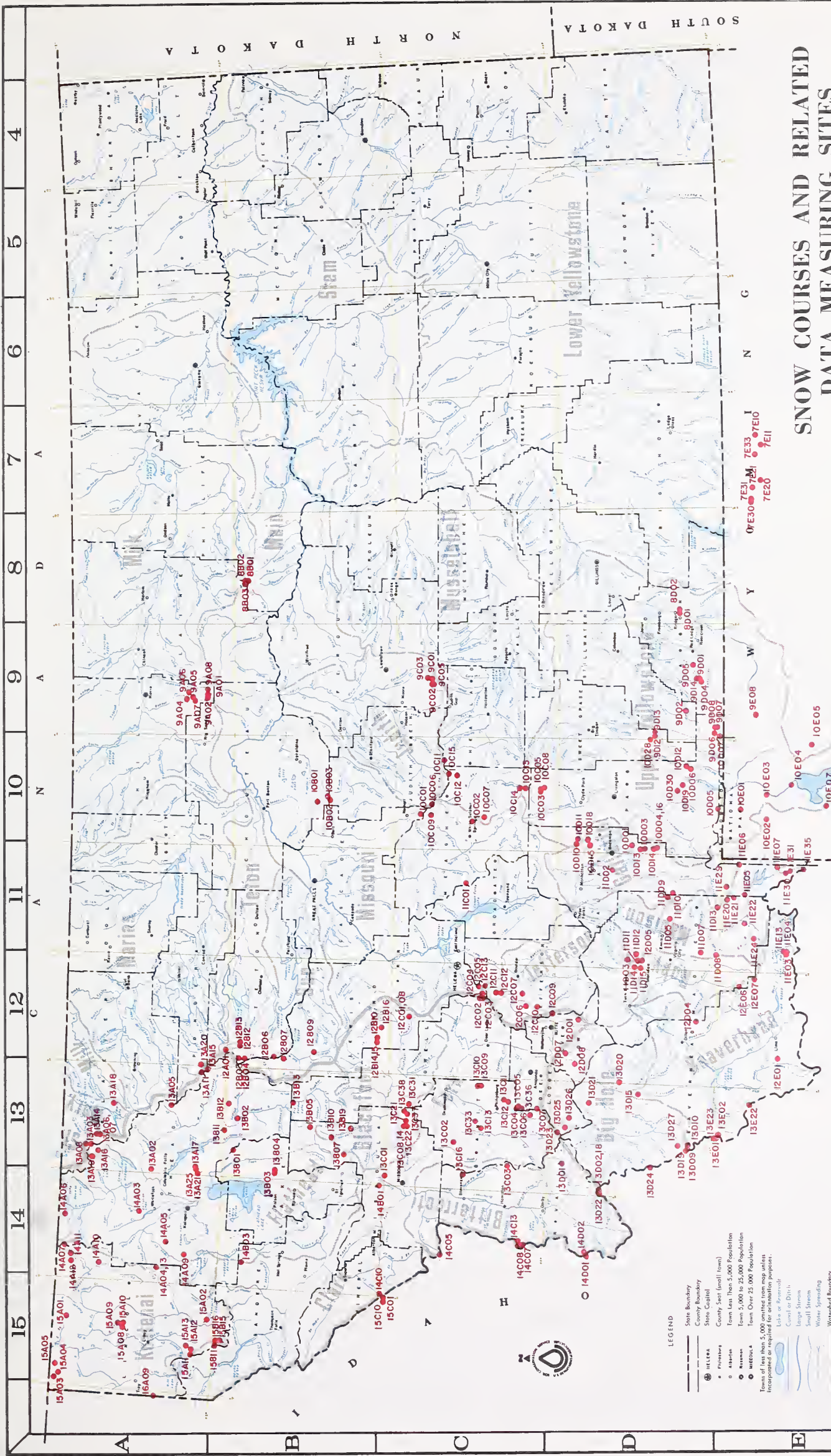


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1974

20 0 20 40 MILES
SCALE 1:4,100,000
ALBERS EQUAL AREA PROJECTION

SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA



- LEGEND**
- State Boundary
 - County Boundary
 - State Capital
 - County Seat (small town)
 - Population
 - Town Less Than 5,000 Population
 - Town 5,000 to 25,000 Population
 - Town Over 25,000 Population
 - Towns of less than 5,000 omitted from map unless incorporated or required for orientation purposes.
 - Water
 - Large or Reservoir
 - Canal or Ditch
 - Large Stream
 - Small Stream
 - Water Spreading
 - Waterbed Boundary
 - Sub-waterbed Boundary
 - Snow Data Measuring Site

USGS National Atlas 1:4,100,000 Alaska
Alaska map and related data sources
for base map and adapted for SCS use

INDEX to MONTANA SNOW COURSES and SOIL MOISTURE STATIONS

Drainage Basin & Snow Course	Number	Elev.	Sec.	Typ.	Range	Record Begin	Measuring Dates	Mean, By 21	Drainage Basin & Snow Course	Number	Elev.	Sec.	Typ.	Range	Record Begin	Measuring Dates	Mean, By 21
SNOW COURSES																	
COLUMBIA RIVER BASIN																	
KOOTENAI RIVER	13411	5700	6	27N	31W	1969	3,4,5,53,6	1	Dad Creek Lake	13122	8400	24	12S	13W	1965	3,4,5	1
Bald Eagle Peak	13408	5600	4	22N	30W	1969	2,3,4,5,53,6	3	Elk Horn Springs	13015	7800	21	4S	12W	1935	3,4,5	3
Banfield Mountain	13811	5300	36	22N	31W	1956	3,4,5,53,6	2	Gold Stone	13009	8100	11	8S	16W	1948	3,4,5	10
Barre Creek	13816	6000	31	26N	30W	1966	3,4,5,53,6	2	Lakeview Canyon	11104	6930	26	14S	20W	1948	1,2,3,4,5	1
Barre Highway	13815	3800	5	23N	30W	1965	3,4,5,53,6	2	Lakeview Ridge	11103	7400	27	14S	20W	1948	1,2,3,4,5	10
Bratlow Creek	13410	3900	2	32S	30W	1969	2,3,4,5,53,6	1	Lemhi Pass	13201	7800	9	10S	15W	1948	3,4	1
Brush Creek	13404	5000	12	32S	30W	1969	3,4,5	1,2	Lemhi Ridge	13223	8100	4	10S	15W	1967	3,4	1
Cedar Creek	13413	4100	35	28N	31W	1969	2,3,4,5,53,6	1,2	Trill Creek	13202	7090	15	10S	15W	1948	3,4,5	1
Cedar Creek Timber	13413	4100	35	28N	31W	1969	2,3,4,5,53,6	1,2	White Pine Ridge	12201	8850	18	14S	9W	1948	3,4,5	1
Davis Creek	13413	4100	35	28N	31W	1969	2,3,4,5,53,6	1,2	RUBY RIVER								
Davis Creek	13413	4100	35	28N	31W	1969	2,3,4,5,53,6	1,2	Bramham Lakes	11014	8850	5	4S	3W	1967	3,4,5	1
Garvar Creek	13406	4000	20	32N	33W	1969	2,3,4,5,53,6	1	Clover Meadow	11008	8600	28	9S	2W	1963	3,4,5	1
Graves Creek	13411	4300	1	36N	32W	1937	3,4,5,53,6	1	Middle Hill Creek	11015	7850	17	4S	3W	1967	3,4,5	1
Hawkins Lake	13403	6450	18	37N	33W	1969	2,3,4,5,53,6	1	North Fork	12206	8500	18	11S	4W	1965	3,4,5	1
Kessler Creek	13409	3300	25	30N	33W	1969	3,4,5	1	Smelter Mine	12205	6960	24	4S	4W	1967	3,4,5	1
Lost Soul	13409	4800	31	33N	29W	1969	2,3,4,5,53,6	1	BIG HOLE RIVER								
Poomman Creek	13412	5100	5	27N	31W	1969	2,3,4,5,53,6	1	Abundance Lake	13200	8800	7	3S	11W	1963	3,4,5	1
Red Mountain	13401	6000	4	36N	29W	1937	3,4,5,53,6	2	Bull Mountain	12208	7300	3	1N	10W	1976	1,2,3,4,5	2
Steel Peak	13412	6050	5	36N	25W	1969	3,4,5,53,6	1	Barker Lake	13219	8600	4	8S	16W	1963	3,4,5	2
Weaver Divide	13407	6550	20	37N	24W	1937	3,4,5,53,6	1	Fleener Ridge	12207	8600	18	28N	9W	1974	1,2,3,4,5	2
FLATHEAD RIVER																	
Beaver Lake	13403	5150	11	26N	25W	1964	3,4,5	1,5	Foolhen	13021	8280	11	15	13W	1963	3,4,5	1
Big Creek	13803	6750	7	22N	18W	1941	3,4,5	6	Jahne Lake Trail	13027	7200	24	7S	16W	1969	3,4,5	1
Camp Henry	13417	6400	30	28N	18W	1962	3,4,5	1,5	Nadalee Creek	13025	7650	24	2N	15W	1967	3,4,5	1
Cottonwood Creek	13405	5800	24	31N	19W	1937	1,2,3,4,5,6	1,2	Siog-Avitch Lake	13024	8750	29	5S	17W	1968	3,4,5	1
Cottonwood Mountain	13409	6300	12	35N	18W	1968	3,4,5,6	1,6	JEFFERSON RIVER								
Crittin Creek Divide	13409	5150	11	28N	25W	1960	3,4,5	1,5	Berry Mountain	12207	7300	8	5N	5W	1962	3,4	4
Gunsight Lake	13812	6300	30	26N	13W	1964	3,4,5	1	Copper Mountain	12209	7700	13	3N	7W	1966	3,4,5,53,6	1
Hill Boasting Divide	13403	5770	35	32N	22W	1942	1,2,3,4,5,53,6	1	Ner Perce Creek	12210	6500	16	4N	6W	1941	2,3,4	4
Kishbrock	13813	4530	18	31N	13W	1951	1,2,3,4,5	1	Rocky Point	12211	4000	17	1N	7W	1938	1,2,3,4,5	1
Kishbrock	13406	3890	14	37N	22W	1954	3,4	6	Shoofly Creek	12212	6300	32	7N	5W	1968	3,4,5	1
Kootenai Creek	13405	4300	34	30N	24W	1937	3,4,5	1,2	MADISON RIVER								
Meridian Pass	13405	5250	36	30N	14W	1934	1,2,3,4,5	1	Black Bear	11235	7950	27	15S	5E	1972	1,2,3,4,5,53,6	1,2
Mineral Creek	13411	4000	29	35N	17W	1957	3,4,5	1,2	Call Road	11207	8050	21	8S	2W	1962	3,4,5	1
Moose Lake	13425	6040	25	28N	19W	1974	3,4,5	1,2	Four Mile	11212	6900	5	4S	2W	1965	3,4,5	1
Noisy Creek	13421	3600	35	28N	19W	1970	3,4,5	1,2	Hebgen Dam	11205	6550	22	11S	3E	1934	1,2,3,4,5	1
North Fork Jacko	13807	6330	3	17N	17W	1941	3,4,5,53,6	1,5	Lake Creek	11201	7900	12	14S	3W	1965	3,4,5	1
Spotted Bear Mountain	13802	6200	23	25N	15W	1968	1,2,3,4,5,53,6	1,5	North Plateau	11231	7750	28	14S	5E	1968	1,2,3,4,5,53,6	1,2
Trinkus Lake	13801	6100	9	23N	17W	1948	3,4,5	1	North Plateau	11231	7750	28	14S	5E	1968	1,2,3,4,5,53,6	1,2
Trinn Creeks	13811	3380	25	26N	16W	1951	1,2,3,4,5	1	Potomac Park	11221	7150	33	10S	3E	1965	3,4,5	1
Upper Holland Lake	13805	6200	28	26N	15W	1948	3,4,5	1	Reper Creek	11224	4000	15	12S	1W	1965	3,4,5	2
CLARK FORK RIVER																	
Black Pine	13213	7100	26	8N	15W	1959	1,2,3,4,5,53,6	1	Ten Mile	11224	4000	15	12S	1W	1965	3,4,5	2
Combination	12816	5200	15	8N	14W	1971	1,2,3,4,5	1,2	Ten Mile	11230	6800	19	14S	5E	1967	1,2,3,4,5,53,6	2
Copper Bottom	12816	5200	15	8N	14W	1971	3,4,5	1,2	GALLATIN RIVER								
Copper Canyon	12816	5200	15	8N	14W	1971	3,4,5	1,2	Arch Falls	10014	7350	3	5S	6E	1963	1,2,3,4,5,53,6	1
Copper Creek	12810	5700	1	15N	9W	1962	3,4,5	1,2	Bear Basin	11009	8150	9	6S	3E	1963	3,4,5	1
Copper Lake	13215	4200	12	18N	16W	1947	1,2,3,4,5	1,2	Bridger Bowl	10015	7250	25	1N	6E	1965	1,2,3,4,5,53,6	1
Copper Trail	13810	4200	3	18N	16W	1947	1,2,3,4,5	1,2	Carter Basin	11229	9000	18	10S	4E	1967	1,2,3,4,5,53,6	2
El Dorado Mine	13209	7800	23	6N	12W	1949	3,4	1	Devlin Slide	10004	8100	14	5S	6E	1935	1,2,3,4,5,53,6	1
Fred Burr Pass	13211	8000	12	6N	13W	1957	3,4,5	1	Hood Meadow	10003	8600	22	4S	6E	1935	1,2,3,4,5,53,6	1
Gold Creek Lake	13210	7200	14	8N	12W	1969	3,4	1	Lubrecht Forest No. 3	13221	5450	19	13N	14W	1951	1,2,3,4,5	8
Heart Lake Trail	14210	4800	11	14N	27W	1965	1,2,3,4,5,53,6	1,2	Lubrecht Forest No. 4	13222	4650	23	13N	15W	1951	1,2,3,4,5	8
Hoodoo Basin	13210	6000	17	14N	27W	1967	1,2,3,4,5,53,6	1,2	Lubrecht Forest No. 5	13223	4650	23	13N	15W	1951	1,2,3,4,5	8
Hoodoo Creek	13204	6450	6	5N	13W	1936	2,3,4,5	1	Lubrecht Forest No. 6	13224	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Flume	13218	4800	13	13N	14W	1971	1,2,3,4,5	8	Lubrecht Forest No. 7	13225	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 1	13221	5450	19	13N	14W	1951	1,2,3,4,5	8	Lubrecht Forest No. 8	13226	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 2	13222	4650	23	13N	15W	1951	1,2,3,4,5	8	Lubrecht Forest No. 9	13227	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 3	13228	4650	23	13N	15W	1951	1,2,3,4,5	8	Lubrecht Forest No. 10	13229	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 4	13229	4650	23	13N	15W	1951	1,2,3,4,5	8	Lubrecht Forest No. 11	13230	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 5	13231	4650	23	13N	15W	1951	1,2,3,4,5	8	Lubrecht Forest No. 12	13232	4650	23	13N	15W	1951	1,2,3,4,5	8
Lubrecht Forest No. 6	13233	4650	23	13N	15W	1951	1,2,3,4,5	8	Lubrecht Forest No. 13	13234	4650	23	13N	15W	1951	1,2,3,4,5	8

Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the
Environment
Water Resources Service, Department of Lands, Forests
and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Bureau of Sports Fisheries and Wildlife
Geological Survey
National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and
Conservation
Montana Water Resources Board
Montana State University - Agricultural Experiment
Station
North Montana Branch Station - Agricultural Exper-
iment Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable
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